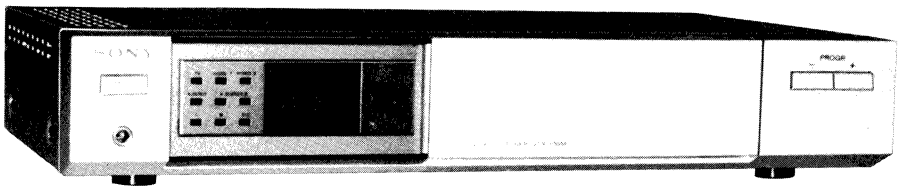
# VTX-100M
## RM-611

# SERVICE MANUAL

*AEP Model*

*Chassis No. SCC-748A-A*



February, 1986

## SPECIFICATIONS

**Television system** CCIR system B, G and H, French system L, System I, American system M, OIRT system D/K

**Dual sound system** Two carrier system

**Channel coverage**

| VHF | UHF |
|---|---|
| E2-S20 | E21-E68 (CCIR) |
| F2-F10 | F21-F69 (L) |
| IA-IJ | B21-B68 (I) |
| A02-49 | A14-A78 (M) |
| R1-R12 | R21-R60 (OIRT) |

**Programing system** 30 programs
Automatic programing digital tuning

**Antenna** 75-ohm standard antenna socket (DIN45325/IEC169-2)

**Inputs**
VIDEO-1 IN/E-VIDEO-1 and VIDEO-2 IN /E-VIDEO-2
- VIDEO (BNC connector)
  1 Vp-p, 75-ohms, unbalanced, sync negative
- AUDIO (2 phono jacks)
  −5 dBs (436 mV rms), 50 kilohms
- CONTROL/CONTROLE (minijack)
  1−3 Vp-p
- MULTI IN/E-MULTI (8-pin socket)
  Same as the above VIDEO, AUDIO and CONTROL/CONTROLE

**Outputs**
MONITOR OUT/S-MONITEUR and TV OUT/S-TV
- VIDEO (BNC connector)
  1 Vp-p, 75 ohms, unbalanced, sync negative
- AUDIO (2 phono jacks)
  −5 dBs (436 mV rms), 7 kilohms
- CONTROL/CONTROLE (minijack)
  1−3 Vp-p
- MULTI OUT/S-MULTI (8-pin socket)
  Same as the above VIDEO, AUDIO and CONTROL/CONTROLE

Headphones (stereo binaural jack)
Accepts low and high impedance stereo headphones

**Power requirements** 220 V ac, 50 Hz

**Power consumption** 16 W

**Dimensions** Approx. 430 x 80 x 265 mm (w/h/d)

**Weight** Approx. 4.5 kg

**Accessories supplied** Remote Commander RM-611
Video Cable VK-2D (8-pin plug to 8-pin plug, 2m)

Design and specifications subject to change without notice.

MICROFILM

COLOR TV TUNER

SONY®

ACC

## TABLE OF CONTENTS

*Section* *Title* *Page*

**1. OUTLINE**

1-1. Location and Function of Parts and Controls 3
1-2. Program Presetting. . . . . .6

**2. DISASSEMBLY**

2-1. Tuner Replace . . . . . .8
2-2. Socket Removal . . . . . .8

**3. CIRCUIT ADJUSTMENTS**

3-1. A Board Adjustment . . . . . .9
3-2. TV Systems List . . . . . .11

**4. DIAGRAMS**

4-1. Semiconductors . . . . . .12
4-2. Block Diagram . . . . . .13
4-3. Circuit Boards Location . . . . . .16
4-4. Schematic Diagram . . . . . .17
4-5. Printed Wiring Boards
A Board. . . . . .22
M Board . . . . . .24
H1 Board. . . . . .25
H2 Boad . . . . . .25
K Board. . . . . .25
F Board. . . . . .27
N Board. . . . . .28
HL Board. . . . . .28
Z Board. . . . . .28

**5. EXPLODED VIEWS**

5-1. Case . . . . . .29
5-2. Front Panel . . . . . .30

**6. ELECTRICAL PARTS LIST** . . . . . .31

RM-611 REMOTE COMMANDER . . . . . .41

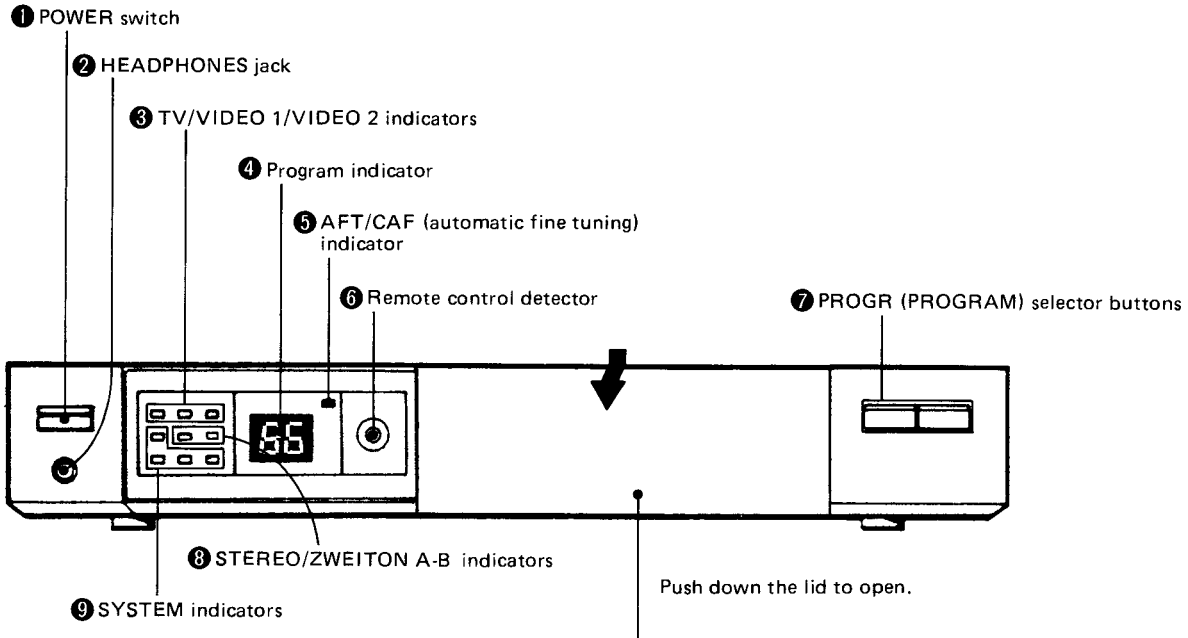
**SAFETY-RELATED COMPONENT WARNING !!**

**COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

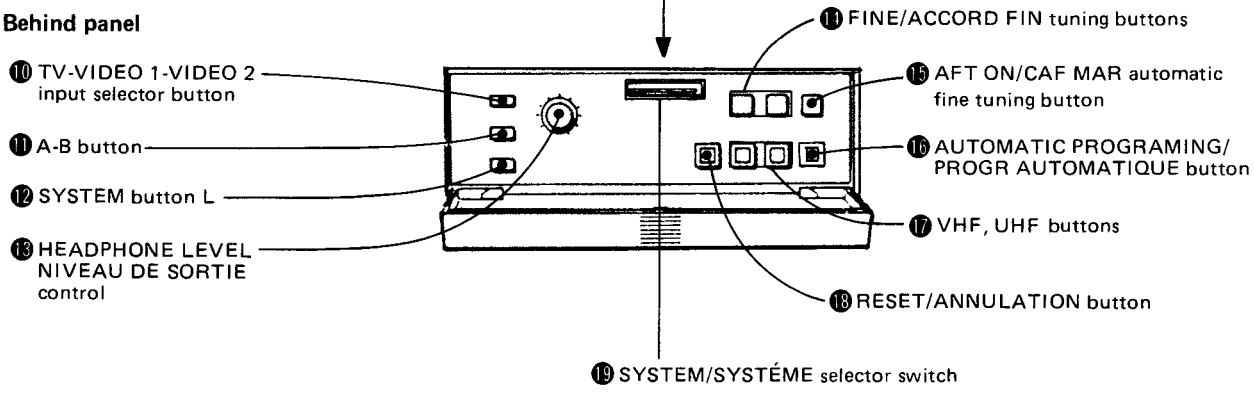
# SECTION 1
# OUTLINE

## 1-1. LOCATION AND FUNCTION OF PARTS AND CONTROLS

### Front


❶ POWER switch
❷ HEADPHONES jack
❸ TV/VIDEO 1/VIDEO 2 indicators
❹ Program indicator
❺ AFT/CAF (automatic fine tuning) indicator
❻ Remote control detector
❼ PROGR (PROGRAM) selector buttons
❽ STEREO/ZWEITON A-B indicators
❾ SYSTEM indicators
Push down the lid to open.

### Behind panel


❿ TV-VIDEO 1-VIDEO 2 input selector button
⓫ A-B button
⓬ SYSTEM button L
⓭ HEADPHONE LEVEL NIVEAU DE SORTIE control
⓫ FINE/ACCORD FIN tuning buttons
⓯ AFT ON/CAF MAR automatic fine tuning button
⓰ AUTOMATIC PROGRAMING/ PROGR AUTOMATIQUE button
⓱ VHF, UHF buttons
⓲ RESET/ANNULATION button
⓳ SYSTEM/SYSTÉME selector switch

❶ ⏻ (power) **switch**
Depress to turn on the power. Press again to turn the power off. When the set is operated with the supplied Remote Commander, be sure to keep this switch depressed.

❷ 🎧 (headphones) **jack** (stereo binaural)
For private listening, connect a stereo headphones to this jack. Any low or high impedance headphones can be connected.

❸ **TV/VIDEO 1/VIDEO 2 indicators** (red)
One of these indicators lights to indicate the selected input.

❹ **Program indicator** (red)
Indicates the program number from 0 to 29. Note that program 30 is indicated by "0".
A dot will blink on the left corner when any function button on the Remote Commander is pressed.

❺ **AFT/CAF indicator** (red)
Lights when the AFT/CAF (automatic fine tuning) circuit is activated.

❻ **Remote control detector**
Receives the infrared control from the Remote Commander.

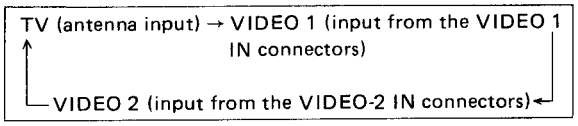
❼ **PROGR** (program) **selector buttons**
Press the + button for higher numbered programs, or — button for lower numbered programs.
Every push on these buttons changes the program in sequence.

❽ **STEREO/ZWEITON A-B indicators**
If stereo-program is received, the indicators lamps A and B light up. If dual-sound-program is received indicator A or B lights up.

❾ **System indicators**
The appertaining indicators lights up when a transmitter of one of the TV-systems is received.

**⑩ TV-VIDEO 1-VIDEO 2 button**

Press to select the input. Every push on this button changes the function in the following sequence.




When the set is turned on, the TV input will be selected automatically.

**⑪ A-B button**

When receiving a dual-sound program, select by pressing this button or A/B button on remote control, whether you wont to hear the programm in your mother language (normally on channel A) or in the original language (normally on channel B).

**⑫ System button L**

With this button you can pre-select whether in case of the automatic program selection the channels of the receivable French TV-standard L or the channels of other receivable TV-systems should be stored first. In case of manual program pre-selection you should also use this button in order to select whether the station of French standarr L or a station of other receivable systems (B/G/H/I, M or D/K, should be stored.

**⑬ HEADPHONE LEVEL/NIVEAU DE SORTIE CASQUE controls**

Turn clockwise to increase the headphones volume, or counterclockwise to decrease it.
This control does not affect the audio output signals from the MONITOR OUT/S-MONITEUR and TV OUT/S-TV jacks.

**⑭ FINE/ACCORD FIN buttons**

Press to fine-tune a channel manually.
Press the + button for higher frequencies, or the — button for lower frequencies.
Once either of the FINE/ACCORD FIN buttons is pressed, the AFT/CAF circuit on the selected channel is deactivated and the AFT/CAF indicator goes off.

**⑮ AFT ON/CAF MAR button**

Press to restore the AFT/CAF circuit on the channel which has been fine-tuned manually.

**⑯ AUTOMATIC PROGRAMING/PROG AUTOMATIQUE buttons**

Press to program your receivable channels automatically.
For details, see page 6.

**⑰ VHF; UHF buttons**

Press to program the channel manually in the desired sequence.
For details, see page 7.

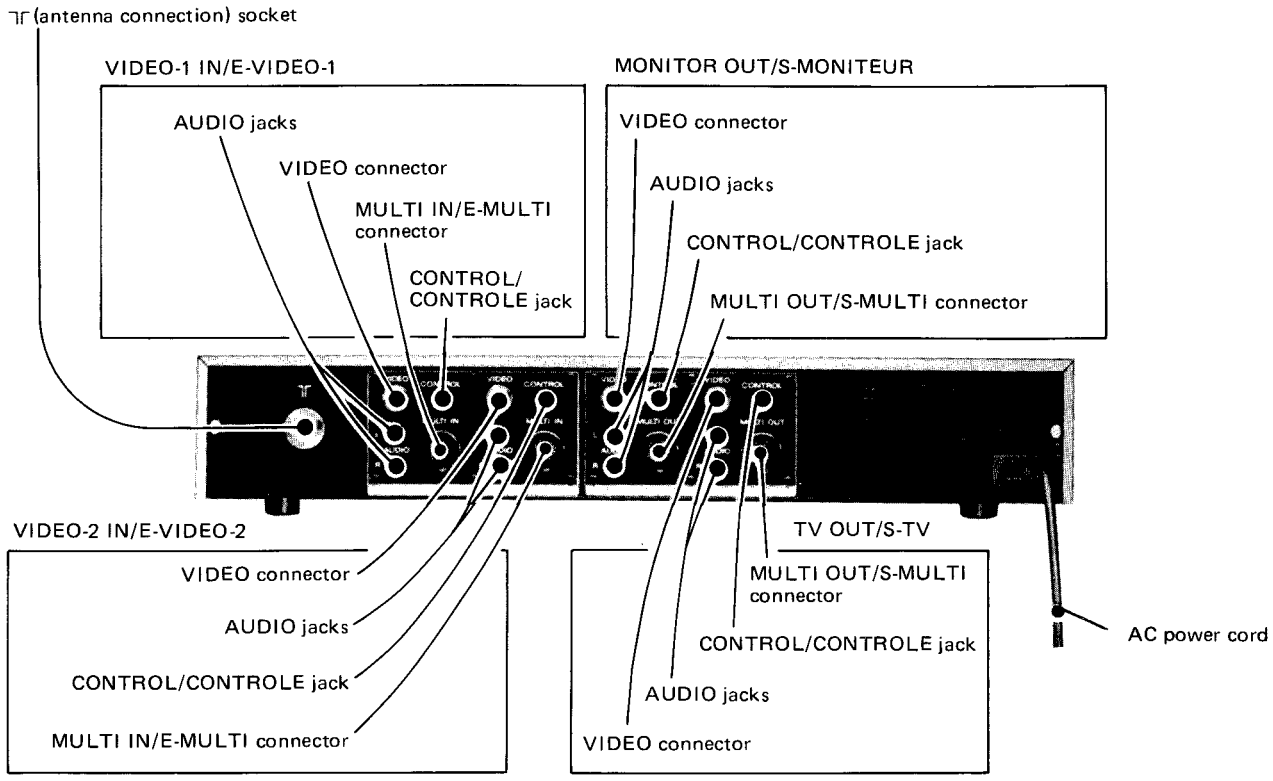
**⑱ RESET/ANNULATION buttons**

If this button is pressed, the set will be tuned to a frequency below channel 2. For details, see page 7.

**⑲ SYSTEM/SYSTÉME selector switch**

The system selector switch should usually be on AUTO position. Only when receiving D/K stations (East European TV-standard) it shoud be pushed to D/K, otherwise there is not any sound to be heard. All other TV-standards will be automatically recognized and stored.
Position M of slide switch should only be set, if there are difficulties in receiving with system M. Usually these stations are also recognized in AUTO position.

**Rear**


(antenna connection) socket
VIDEO-1 IN/E-VIDEO-1
AUDIO jacks
VIDEO connector
MULTI IN/E-MULTI connector
CONTROL/ CONTROLE jack
MONITOR OUT/S-MONITEUR
VIDEO connector
AUDIO jacks
CONTROL/CONTROLE jack
MULTI OUT/S-MULTI connector
VIDEO-2 IN/E-VIDEO-2
VIDEO connector
AUDIO jacks
CONTROL/CONTROLE jack
MULTI IN/E-MULTI connector
TV OUT/S-TV
MULTI OUT/S-MULTI connector
CONTROL/CONTROLE jack
AUDIO jacks
VIDEO connector
AC power cord

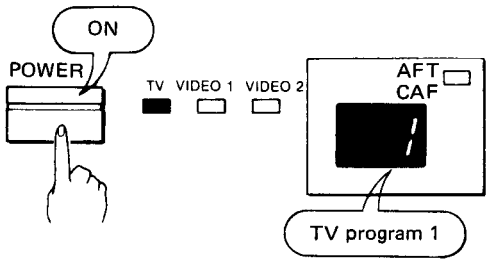
## 1-2. PROGRAM PRESETTING

This TV tuner has 30 program positions. Once you preset the channels broadcast in your area, program selection is simply made by pressing the PROGRAM buttons on the TV tuner or using the hand-held Remote Commander.
Perform program presetting by following one of the two procedures; automatic programing or manual programing.

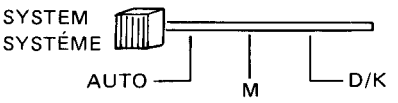
### AUTOMATIC PROGRAMING

With the automatic programing system, receivable VHF and UHF channels in your area can be preset automatically in numerical sequence; from the lowest frequency VHF channel through the highest UHF channel.

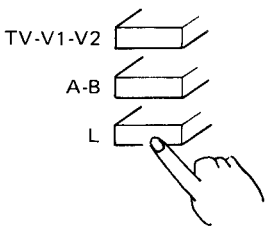
**1** **Turn on the power.**




**2** **Put system switch in position AUTO**

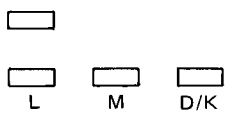



**3** **System button L**

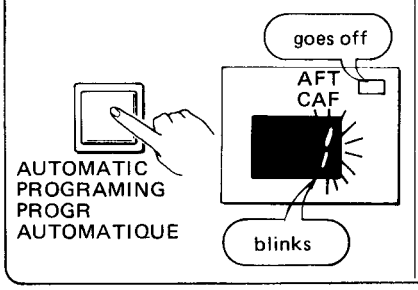



Pre-select with system button L whether the program of the French system L or the other receivable program of other TV-systems (B/G/H/I, M, D/K) should be stored first.

**Indicators**

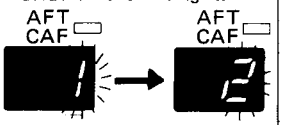



**4** **Start the automatic programing.**




The first channel found will be memorized on program position 1, the second on position 2, and so on.
This tuning-memorizing sequence will be repeated for each channel in your area.
When no more channels can be found; automatic programing will stop and the remaining program positions will be skipped.

### Guide for automatic programing procedure

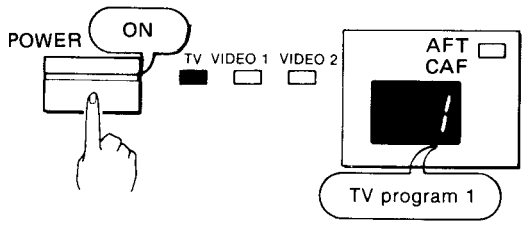
| | While programing | When the programing is finished |
|---|---|---|
| **Picture and/or sound** | No picture and no sound between stations. When tuned in and memorized, the program will appear. | The program on position 1 will appear. |
| **Program Indicator and AFT/CAF indicator** | The number corresponding to the program position being preset will blink continuously. The AFT/CAF indicator does not light.   | The number "1" will appear (not blink). The AFT/CAF indicator will light. |

**Remark:**
If system switch is not on AUTO position, indicator M or D/K lights up depending on position of slide switch.
A system pre-selection (3) with the L-button is not possible any more.
The automatic search mode stores in two runs all programmes of standards M, D/K and B/G/H/I.
After that the indicator returns to program number 1.

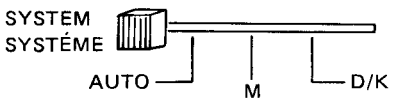
## MANUAL PROGRAMING

With the manual program search system, the channels you want can be preset in the desired sequence.
Any program position can be set to any frequency from below channel 2 to the highest UHF TV channel. Consult your local TV listings to find out the active channels in your area.
Make a list of your desired VHF and UHF channels and arrange them in the desired sequence.

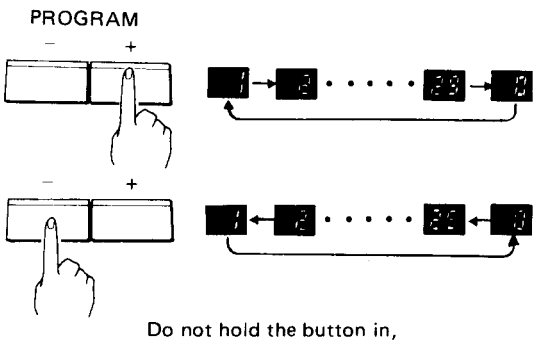
**1** **Turn on the power.**




**2** **Put system switch in position AUTO**

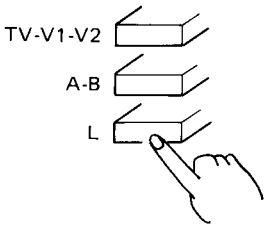



**3** **Select the program position to which the channel is to be preset.**



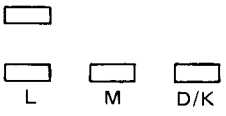

Do not hold the button in, just press it momentarily.

**4** **System button L**

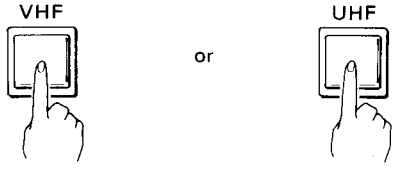



Select with whether you want to store a station of French system L or other receivable stations of systems B/G/H/I, M or D/K.

**Indicators**




**5** **Tune in the desired station.**




Do not hold the button in, just press it momentarily.

**While searching for a station**
No picture appears.
The program number blinks.
The AFT/CAF indicator goes off.

**When a station is tuned in**
A picture appears.
The program number stops blinking.
The AFT/CAF indicator lights.

**If searching stops between channels**
This may happen in strong signal areas. Just press the VHF, UHF button again.

Repeat steps 3 till 5 until all the desired TV stations have been preselected.

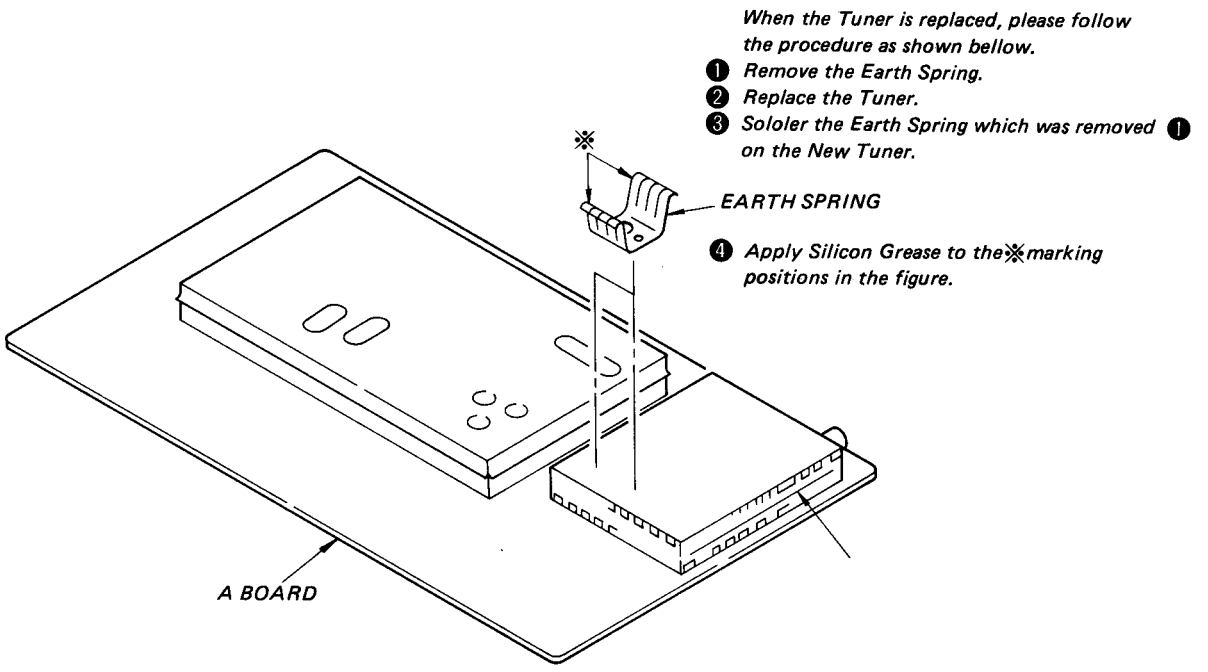
**Use of the RESET/ANNULATION button**
If this button is pressed, any memory on the selected program position will be erased and the set will be automatically tuned to a frequency below channel 2.

- It is recommended that you press the RESET/ANNULATION button for unused program positions if any.

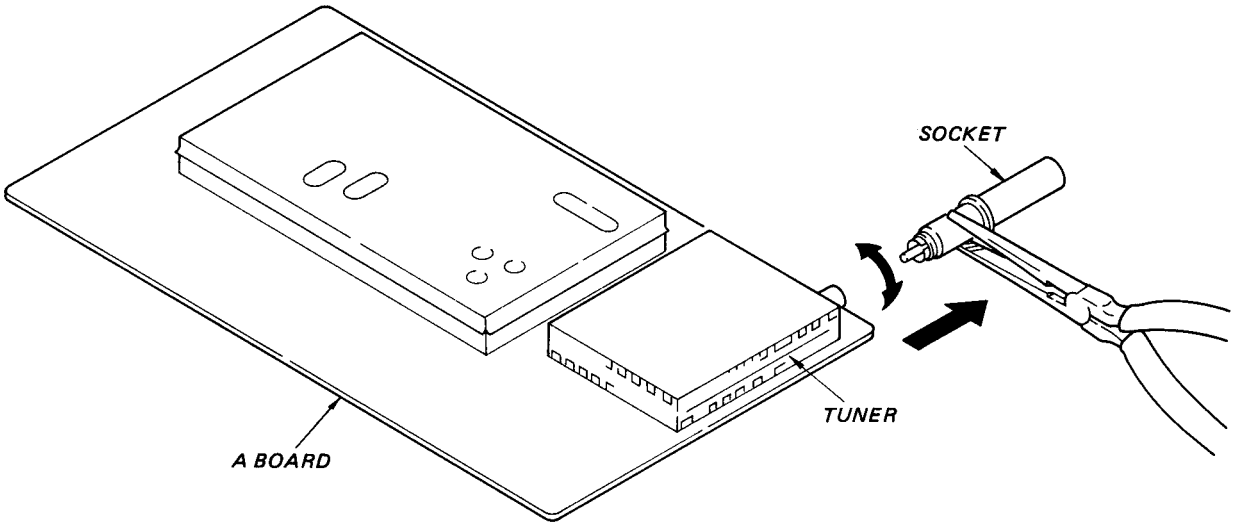
**Remark:**
If the system switch is not set on position AUTO a system pre-selection L is not possible any more.
Only the stations of systems, M, D/K, B/G/H/I are stored them.

# SECTION 2
# DISASSEMBLY

## 2-1. TUNER REPLACE

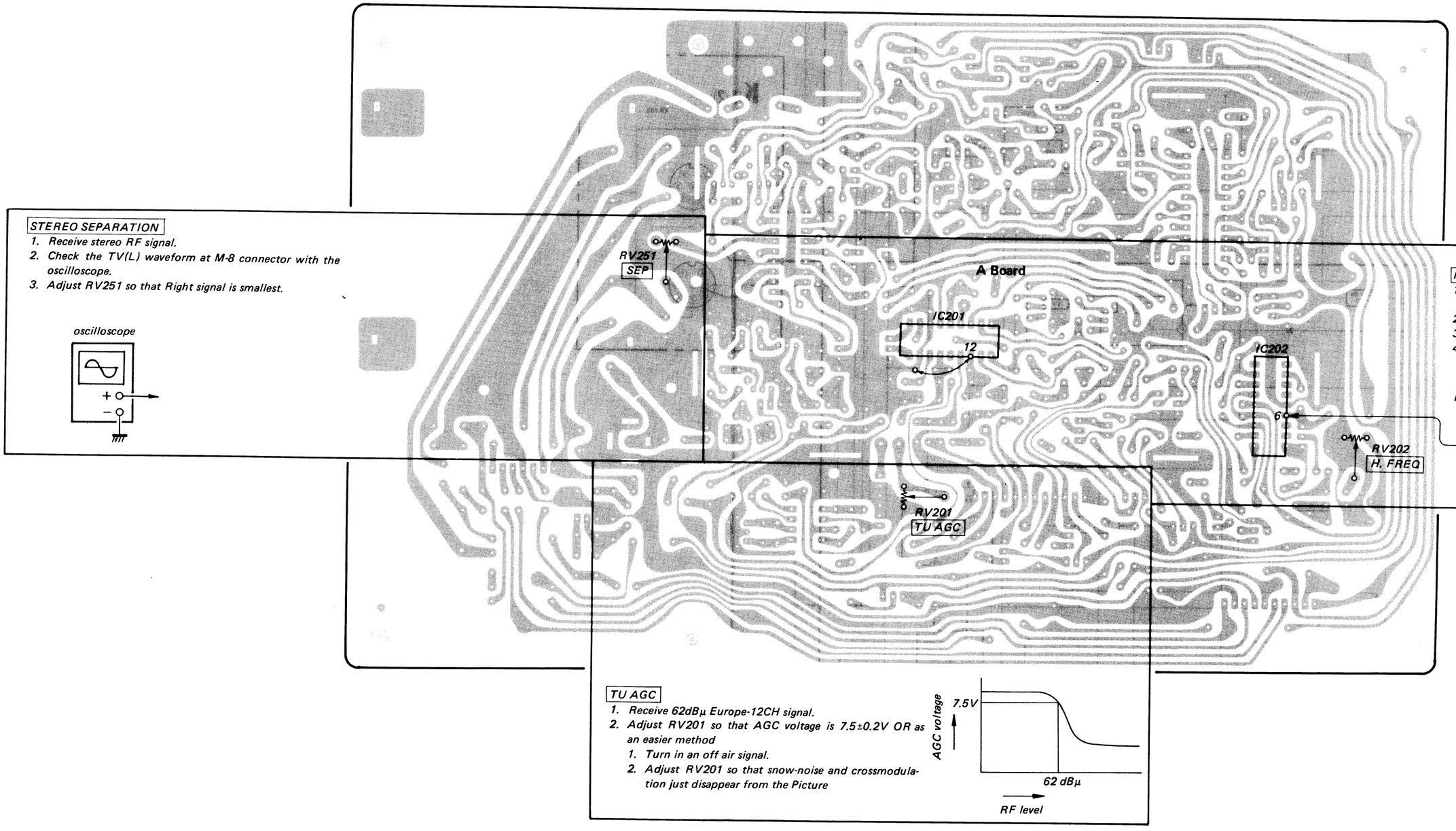

When the Tuner is replaced, please follow the procedure as shown bellow.
❶ Remove the Earth Spring.
❷ Replace the Tuner.
❸ Sololer the Earth Spring which was removed ❶ on the New Tuner.
※
EARTH SPRING
❹ Apply Silicon Grease to the※marking positions in the figure.
A BOARD

## 2-2. SOCKET REMOVAL



# SECTION 3
# CIRCUIT ADJUSTMENTS

## 3-1. A BOARD ADJUSTMENT




*STEREO SEPARATION*

1. *Receive stereo RF signal.*
2. *Check the TV(L) waveform at M-8 connector with the oscilloscope.*
3. *Adjust RV251 so that Right signal is smallest.*

*H. Frq*

1. *Short circuit between pin (12) with jumper wire.*
2. *Receive the PAL Color-bar signal.*
3. *Connect an Frequency counter t*
4. *Adjust RV202 to obtain 15.625±*

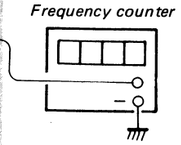
*TU AGC*

1. *Receive 62dBμ Europe-12CH signal.*
2. *Adjust RV201 so that AGC voltage is 7.5±0.2V OR as an easier method*
   1. *Turn in an off air signal.*
   2. *Adjust RV201 so that snow-noise and crossmodulation just disappear from the Picture*

*H. Frq*

1. *Short circuit between pin (12) of IC201 and ground with jumper wire.*
2. *Receive the PAL Color-bar signal.*
3. *Connect an Frequency counter to the pin (6) of IC202.*
4. *Adjust RV202 to obtain 15.625±50 Hz.*

*Frequency counter*



### 3-2. TV SYSTEMS LIST

| | TV SYSTEMS | | | | | |
|---|---|---|---|---|---|---|
| | L(BAND I) | L(BAND III/U) | B/G/H | I | M | D/K |
| SYS(M3④→AI④) | L | L | H | H | H | L/H |
| L (A2⑥→MI2⑥) | H | H | L | L | L | L |
| LI (A2⑨→MI2⑨) | H | L | L | L | L | L |
| L2 (A2⑩→MI2⑩) | L | H | H | H | H | H |
| Q226, IC203 | OFF | OFF | ON | ON | ON | ON |
| IC501, Q501 | ON | ON | OFF | OFF | OFF | OFF |
| D501～D504 | OFF | ON | ON | ON | ON | ON |
| IC502 | OFF | OFF | ON | ON | ON | OFF |
| IC205 | OFF | OFF | OFF | OFF | ON | ON |
| Q510/D521/D505 | OFF/ON | OFF/ON | ON/OFF | ON/OFF | OFF/ON | OFF/ON |
| IC501(AF IN) | ①, ⑬pin | ①, ⑬ | ④, ⑥ | ④, ⑥ | ①, ⑬ | ①, ⑬ |
| Q506, 507 | OFF | OFF | ON | ON | OFF | OFF |
| Q156 | OFF | OFF | ON | OFF | ON | OFF |
| Q170 | OFF | OFF | OFF | OFF | OFF | ON |
| M (A2⑪⇄MI2⑪) | L | L | L | L | H | L |
| D/K (A2⑫←MI2⑫) | L | L | L | L | L | H |
| B/G (AI⑩→M3⑩) | L | L | H | L | L | L |
| D201, D202 | OFF | ON | ON | ON | ON | ON |
| D203 | ON | ON | OFF | ON | ON | ON |
| D210(5.5M/6.0M) | OFF/ON | OFF/ON | ON/OFF | OFF/ON | OFF/ON | OFF/ON |
| Q210 | OFF | OFF | ON | OFF | OFF | OFF |
| Q214 | OFF | OFF | OFF | ON | OFF | OFF |
| Q225 | OFF | OFF | OFF | OFF | ON | OFF |
| D215 | ON | ON | OFF | OFF | ON | OFF |
| Q202/Q157 | OFF | OFF | OFF | OFF | ON | OFF |
| Q204 | OFF | OFF | OFF | OFF | ON | OFF |
| Q502, D511 | OFF | OFF | OFF | OFF | ON | ON |

### BAND SW (IC101)

| BAND | IN PUT | | OUT PUT | | |
|---|---|---|---|---|---|
| | ③ | ④ | ① | ② | ⑦ |
| I | L | H | H | L | L |
| III | L | L | L | L | H |
| U | H | L | L | H | L |

IN PUT
L : 1V below
H : 3V above

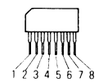
OUT PUT
H ≒ 12V



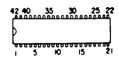
# SECTION 4
# DIAGRAMS

### 4-1. SEMICONDUCTORS

**CX20106A**
**M54570L**
**M54572L**

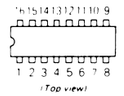



**CX523-113P**

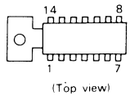



**CX894**

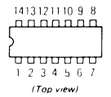
**HD14027BP**
**HD14052BP**




**LA4175**

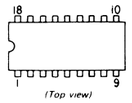



**M58657P**
**TDA4445F**
**TDA4944**

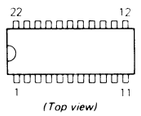



**TBA129**

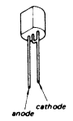
**TDA2546A**
**TDA2595A**
**TDA4429T**



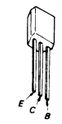

**TDA4940**




**μPC574**



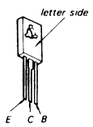

**2SA1048**
**2SC403SP**
**2SC2458**
**DTA144ES**
**DTC124ES**
**DTC144ES**
**DTC143TS**



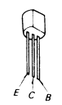

**2SA1175**
**2SC2785**

**2SB733**

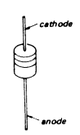
**2SB772**



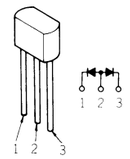

**2SD788**
**BF199**
**BF959**



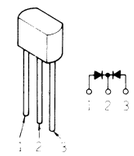

**1SS119**
**1SS168**



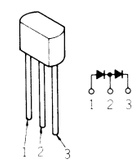

**MC911**



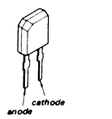

**MC921**



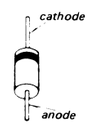

**MC931**



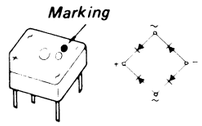

**PH302B**



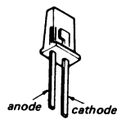

**RD10E-B1**
**RD20E-B2**
**RD22E-B2**
**RD30E-B2**
**RD39JS-T1B1**
**RD6.8E-B3**



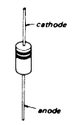

**S3WB60Z**



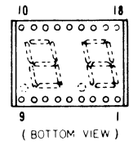

**SG232D**
**SR632D**




**SIB01-02**



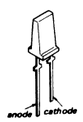

**SL1274**



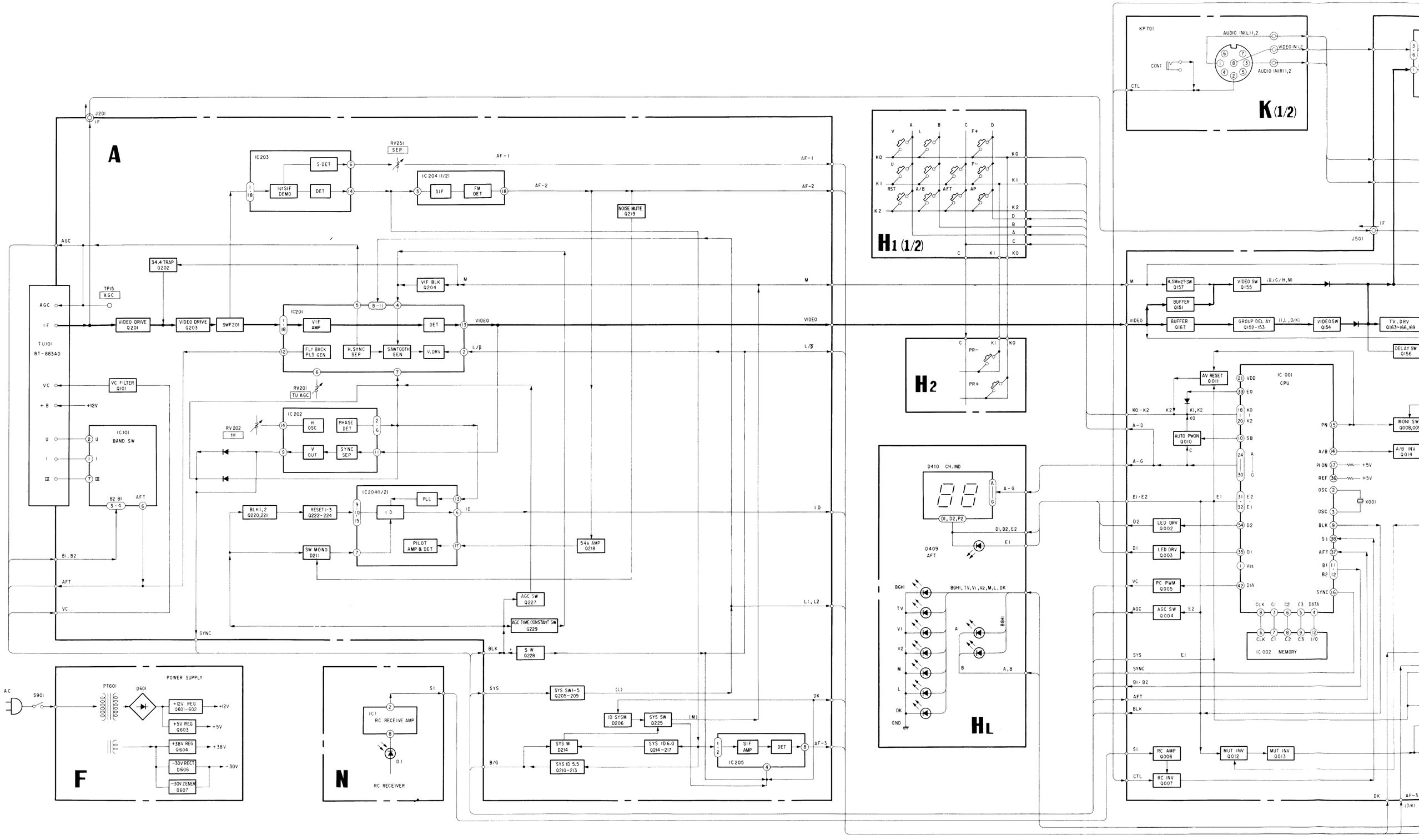


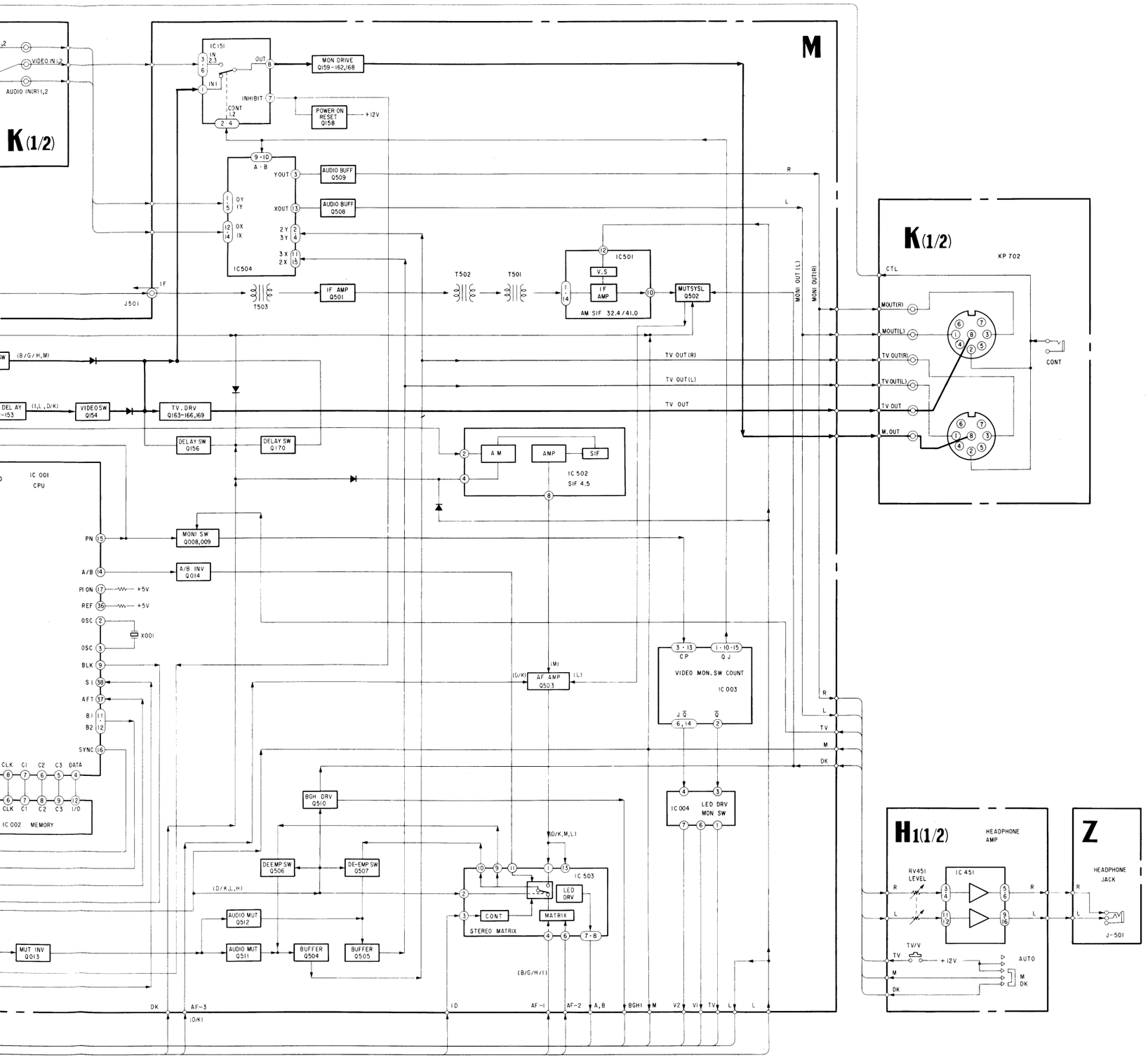


**SY432D**



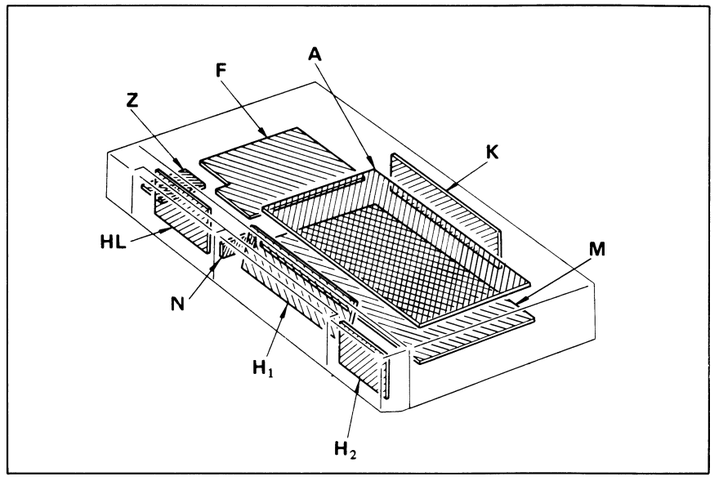
## 4-2. BLOCK DIAGRAM








## 4-3. CIRCUIT BOARDS LOCATION



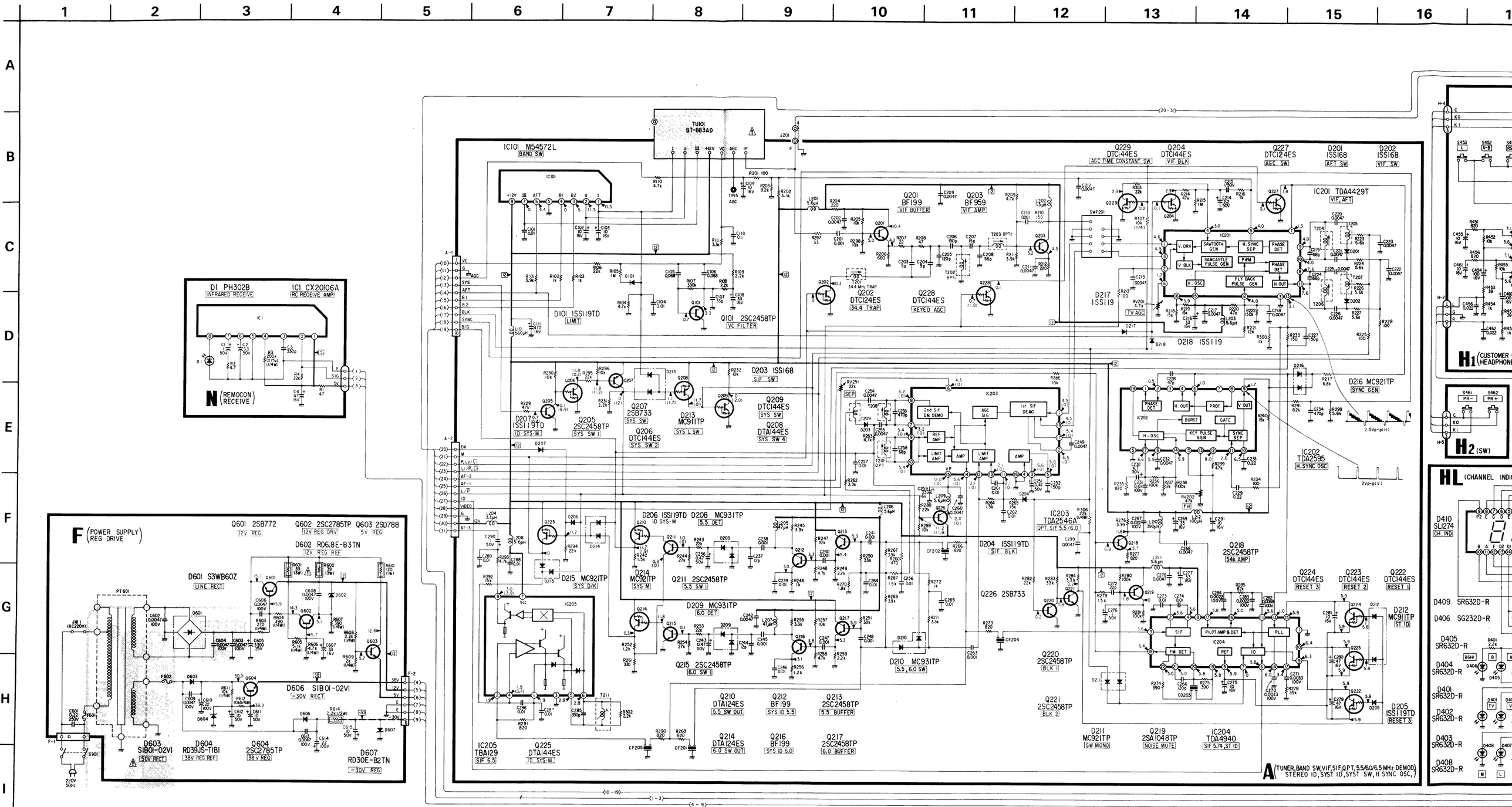

**Note for schematic diagram.**

**Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

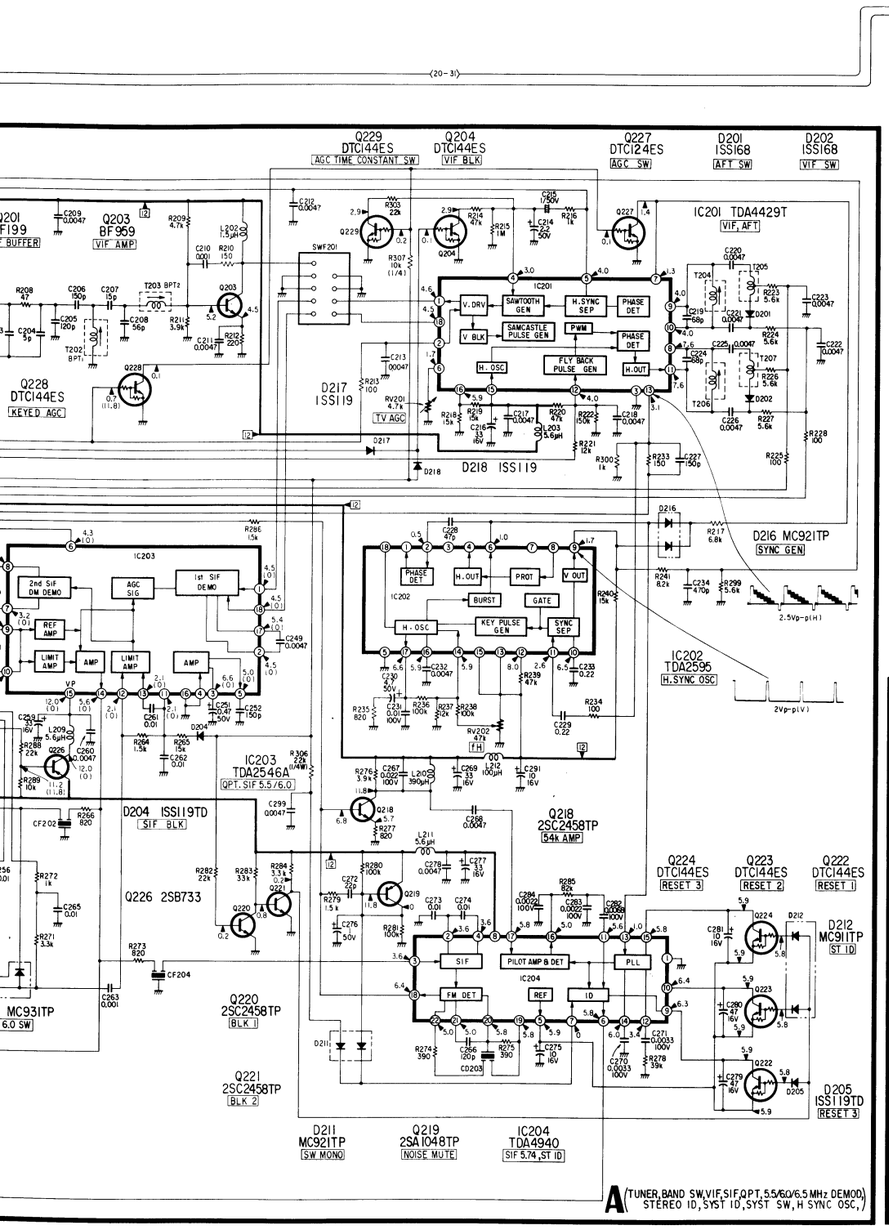
NOTE:

- All capacitors are in μF unless otherwise noted. pF; μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/8 W unless otherwise noted. k: 1000 Ω, M: 1000 kΩ
- : nonflammable resistor.
- △ : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10MΩ digital multimeter
- Voltages are taken with set selected to CH-46 (UHF) position.
- : adjustment for repair.
- Readings are taken with a system G stereo signal input.
- Voltage variations may be noted due to normal production tolerances.
- No mark : CCIR system B, G, and H
  ( ) : French system L
- ▬▬ : B+ bus
- ▬ ▬ : B− bus

## 4-4. SCHEMATIC DIAGRAM

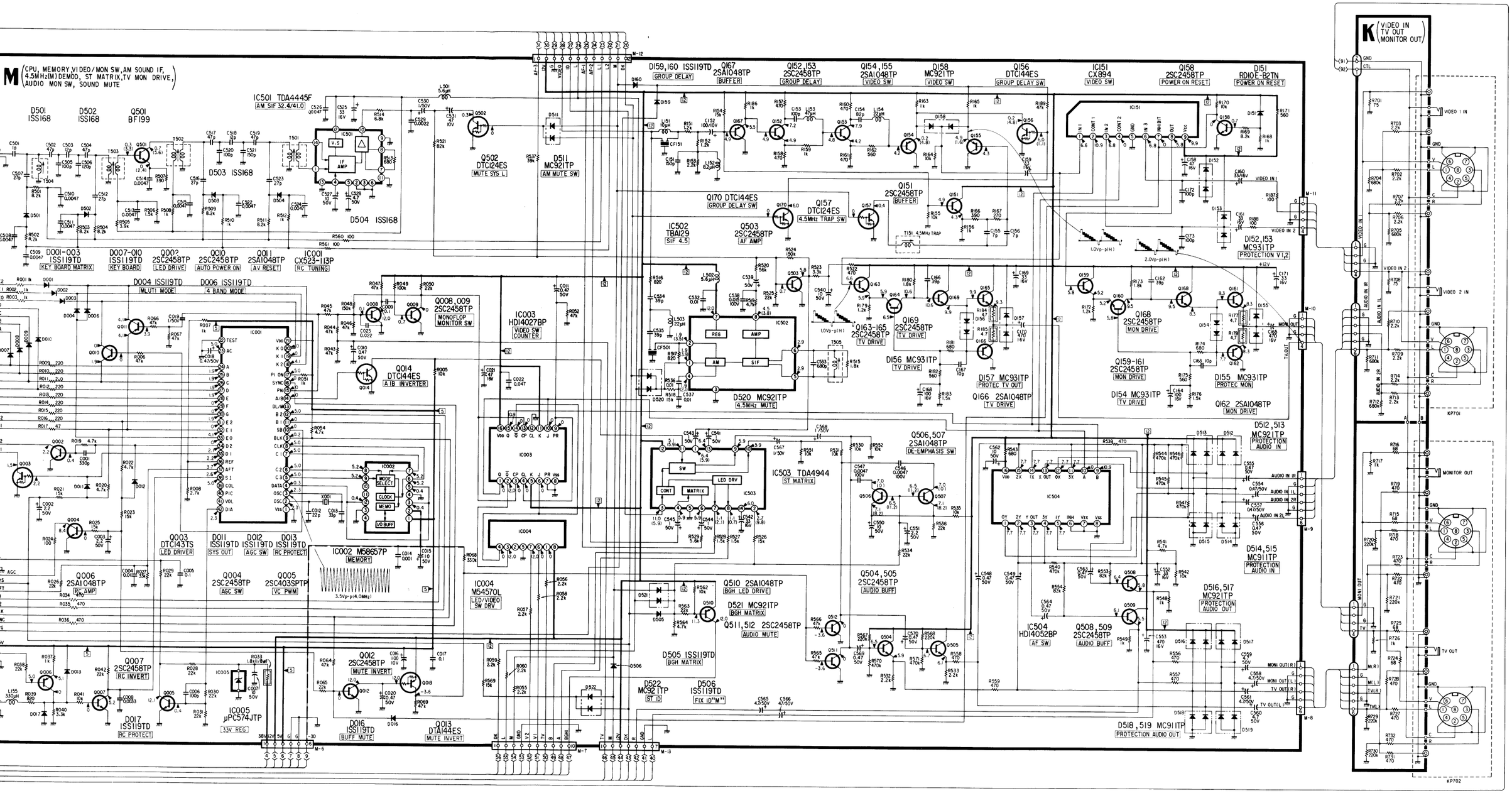

N (REMOCON (RECEIVE)
D1 PH302B INFRARED RECEIVE
IC1 CX20106A RC RECEIVE AMP
F (POWER SUPPLY REG DRIVE)
Q601 2SB772 12V REG
Q602 2SC2785TP Q603 2SD788 12V REG DRV 5V REG
D602 RD6.8E-B3TN 12V REG REF
D601 S3WB60Z LINE RECT
D603 SIB01-02VI 50V RECT
D604 RD39JS-T1B1 38V REG REF
Q604 2SC2785TP 38V REG
D606 SIB01-02VI -30V RECT
D607 RD30E-B2TN -30V REG
TU101 BT-883AD
IC101 M54572L BAND SW
Q101 2SC2458TP VC FILTER
D101 ISS119TD LIMIT
Q201 BF199 VIF BUFFER
Q203 BF959 VIF AMP
Q202 DTC124ES 34.4 TRAP
Q228 DTC144ES KEYED AGC
Q229 DTC144ES AGC TIME CONSTANT SW
Q204 DTC144ES VIF BLK
Q227 DTC124ES AGC SW
D201 ISS168 AFT SW
D202 ISS168 VIF SW
IC201 TDA4429T VIF, AFT
D217 ISS119 TV AGC
D218 ISS119
D203 ISS168 SIF SW
Q205 2SC2458TP SYS SW 1
Q207 2SB733 SYS SW
Q206 DTC144ES SYS SW 2
D213 MC911TP SYS L SW
Q209 DTC144ES SYS SW
Q208 DTA144ES SYS SW 4
D207 ISS119TD ID SYS-M
D216 MC921TP SYNC GEN
IC203 TDA2546A QPT, SIF 5.5/6.0
IC202 TDA2595 H.SYNC OSC
D204 ISS119TD SIF BLK
Q226 2SB733
Q220 2SC2458TP BLK 1
Q221 2SC2458TP BLK 2
D211 MC921TP SW MONO
Q219 2SA1048TP NOISE MUTE
IC204 TDA4940 SIF 5.74 ST ID
Q218 2SC2458TP 54k AMP
Q224 DTC144ES RESET 3
Q223 DTC144ES RESET 2
Q222 DTC144ES RESET 1
D212 MC911TP ST ID
D205 ISS119TD RESET 3
D206 ISS119TD D208 MC931TP 5.5 DET
D214 MC921TP SYS M
Q211 2SC2458TP 5.5 SW 1
D209 MC931TP 6.0 DET
Q215 2SC2458TP 6.0 SW 1
D210 MC931TP 5.5, 6.0 SW
IC205 TBA129 SIF 6.5
Q225 DTA144ES ID SYS-M
Q210 DTA124ES 5.5 SW OUT
Q212 BF199 SYS ID 5.5
Q213 2SC2458TP 5.5 BUFFER
Q214 DTA124ES 6.0 SW OUT
Q216 BF199 SYS ID 6.0
Q217 2SC2458TP 6.0 BUFFER
D215 MC921TP SYS D/K
A (TUNER, BAND SW, VIF, SIF, QPT, 5.5/6.0/6.5 MHz DEMOD, STEREO ID, SYST ID, SYST SW, H SYNC OSC,)
H1 (CUSTOMER (HEADPHON
H2 (SW)
HL (CHANNEL INDI
D410 SLI274 CH. IND
D409 SR632D-R
D406 SG232D-R
D405 SR632D-R
D404 SR632D-R
D401 SR632D-R
D402 SR632D-R
D403 SR632D-R
D408 SR632D-R

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26


Q229 DTC144ES AGC TIME CONSTANT SW
Q204 DTC144ES VIF BLK
Q227 DTC124ES AGC SW
D201 ISS168 AFT SW
D202 ISS168 VIF SW
IC201 TDA4429T VIF, AFT
Q203 BF959 VIF AMP
Q228 DTC144ES KEYED AGC
D217 ISS119 TV AGC
D218 ISS119
D216 MC921TP SYNC GEN
IC202 TDA2595 H.SYNC OSC
IC203 TDA2546A QPT, SIF 5.5/6.0
D204 ISS119TD SIF BLK
Q226 2SB733
Q220 2SC2458TP BLK 1
Q221 2SC2458TP BLK 2
Q218 2SC2458TP 54k AMP
Q224 DTC144ES RESET 3
Q223 DTC144ES RESET 2
Q222 DTC144ES RESET 1
D212 MC91ITP ST ID
D205 ISS119TD RESET 3
D211 MC921TP SW MONO
Q219 2SA1048TP NOISE MUTE
IC204 TDA4940 SIF 5.74, ST ID
A (TUNER, BAND SW, VIF, SIF, QPT, 5.5/6.0/6.5 MHz DEMOD, STEREO ID, SYST ID, SYST SW, H SYNC OSC,)
IC451 LA4175 H.P AMP
H1 (CUSTOMER CONTROL (HEADPHONE AMP)
H2 (SW)
Z (HEAD PHONE) JACK
HL (CHANNEL INDICATOR)
D410 SL1274 CH. IND
D409 SR632D-R
D406 SG232D-R
D405 SR632D-R
D404 SR632D-R
D401 SR632D-R
D402 SR632D-R
D403 SR632D-R
D408 SR632D-R
D407 SY432D-R
D411 SG232D-R
M (CPU, MEMORY, VIDEO/MON SW, AM SOUND IF, 4.5MHz(M) DEMOD, ST MATRIX, TV MON DRIVE, AUDIO MON SW, SOUND MUTE)
IC501 TDA4445F AM SIF 32.4/41.0
D501 ISS168
D502 ISS168
Q501 BF199
D503 ISS168
D504 ISS168
D001-003 ISS119TD KEY BOARD MATRIX
D007-010 ISS119TD KEY BOARD
Q002 2SC2458TP LED DRIVE
Q010 2SC2458TP AUTO POWER ON
Q011 2SA1048TP AV RESET
IC001 CX523-13P RC TUNING
D004 ISS119TD MUTI MODE
D006 ISS119TD 4 BAND MODE
IC001
Q008,009 2SC2458TP MONOFLOP MONITOR SW
Q014 DTC144ES A/B INVERTER
IC003 HD14027BP VIDEO SW COUNTER
IC002 M58657P MEMORY
IC004 M54570L LED/VIDEO SW DRV
IC005 μPC574JTP 33V REG
Q003 DTC143TS LED DRIVER
D011 ISS119TD SYS OUT
D012 ISS119TD AGC SW
D013 ISS119TD RC PROTECT
Q004 2SC2458TP AGC SW
Q005 2SC4035PTP VC PWM
Q006 2SA1048TP RC AMP
Q007 2SC2458TP RC INVERT
D017 ISS119TD RC PROTECT
Q012 2SC2458TP MUTE INVERT
D016 ISS119TD BUFF MUTE
Q013 DTA144ES MUTE INVERT
D159,160 ISS119TD
Q167 2SA1048TP GROUP DELAY BUFFER
Q170 DTC144ES GROUP DELAY SW
IC502 TBA129 SIF 4.5
Q503 2SC2458TP AF AMP
D520 MC921TP 4.5MHz MUTE
Q510 2SA1048TP BGH LED DRIVE
D521 MC921TP BGH MATRIX
Q511,512 2SC2458TP AUDIO MUTE
D505 ISS119TD BGH MATRIX
D522 MC921TP ST ID
D506 ISS119TD FIX ID"M"
D511 MC921TP AM MUTE SW
Q502 DTC124ES MUTE SYS L

VTX-100M RM-611
VTX-100M RM-611

19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34


M (CPU, MEMORY, VIDEO/MON SW, AM SOUND IF, 4.5MHz(M) DEMOD, ST MATRIX, TV MON DRIVE, AUDIO MON SW, SOUND MUTE)
IC501 TDA4445F AM SIF 32.4/41.0
D501 ISS168
D502 ISS168
Q501 BF199
D503 ISS168
D504 ISS168
D001-003 ISS119TD KEY BOARD MATRIX
D007-010 ISS119TD KEY BOARD
Q002 2SC2458TP LED DRIVE
Q010 2SC2458TP AUTO POWER ON
Q011 2SA1048TP AV RESET
IC001 CX523-113P RC TUNING
D004 ISS119TD MULTI MODE
D006 ISS119TD 4 BAND MODE
Q008,009 2SC2458TP MONOFLOP MONITOR SW
IC003 HD14027BP VIDEO SW COUNTER
Q014 DTC144ES A.I.B INVERTER
IC002 M58657P MEMORY
Q003 DTC143TS LED DRIVER
D011 ISS119TD SYS OUT
D012 ISS119TD AGC SW
D013 ISS119TD RC PROTECT
Q006 2SA1048TP RC AMP
Q004 2SC2458TP AGC SW
Q005 2SC403SPTP VC PWM
IC004 M54570L LED/VIDEO SW DRV
Q007 2SC2458TP RC INVERT
IC005 μPC574JTP 3.3V REG
D017 ISS119TD RC PROTECT
Q012 2SC2458TP MUTE INVERT
D016 ISS119TD BUFF MUTE
Q013 DTA144ES MUTE INVERT
D159,160 ISS119TD GROUP DELAY
Q167 2SA1048TP BUFFER
Q152,153 2SC2458TP GROUP DELAY
Q154,155 2SA1048TP VIDEO SW
D158 MC921TP VIDEO SW
Q156 DTC144ES GROUP DELAY SW
IC151 CX894 VIDEO SW
Q158 2SC2458TP POWER ON RESET
D151 RD10E-B2TN POWER ON RESET
Q170 DTC144ES GROUP DELAY SW
Q157 DTC124ES 4.5MHz TRAP SW
Q151 2SC2458TP BUFFER
IC502 TBA129 SIF 4.5
Q503 2SC2458TP AF AMP
D152,153 MC931TP PROTECTION V1,2
IC503 TDA4944 ST MATRIX
Q506,507 2SA1048TP DE-EMPHASIS SW
Q163-165 2SC2458TP TV DRIVE
Q169 2SC2458TP TV DRIVE
D156 MC931TP TV DRIVE
D157 MC931TP PROTEC TV OUT
Q166 2SA1048TP TV DRIVE
Q168 2SC2458TP MON DRIVE
Q159-161 2SC2458TP MON DRIVE
D155 MC931TP PROTEC MON
D154 MC931TP TV DRIVE
Q162 2SA1048TP MON DRIVE
D512,513 MC921TP PROTECTION AUDIO IN
IC504 HD14052BP AF SW
Q508,509 2SC2458TP AUDIO BUFF
D514,515 MC911TP PROTECTION AUDIO IN
D516,517 MC921TP PROTECTION AUDIO OUT
D518,519 MC911TP PROTECTION AUDIO OUT
Q504,505 2SC2458TP AUDIO BUFF
Q510 2SA1048TP BGH LED DRIVE
D521 MC921TP BGH MATRIX
Q511,512 2SC2458TP AUDIO MUTE
D505 ISS119TD BGH MATRIX
D522 MC921TP ST ID
D506 ISS119TD FIX ID"M"
D520 MC921TP 4.5MHz MUTE
K (VIDEO IN TV OUT MONITOR OUT)
KP701
KP702

## 4-5. PRINTED WIRING BOARDS

*– Conductor side –*

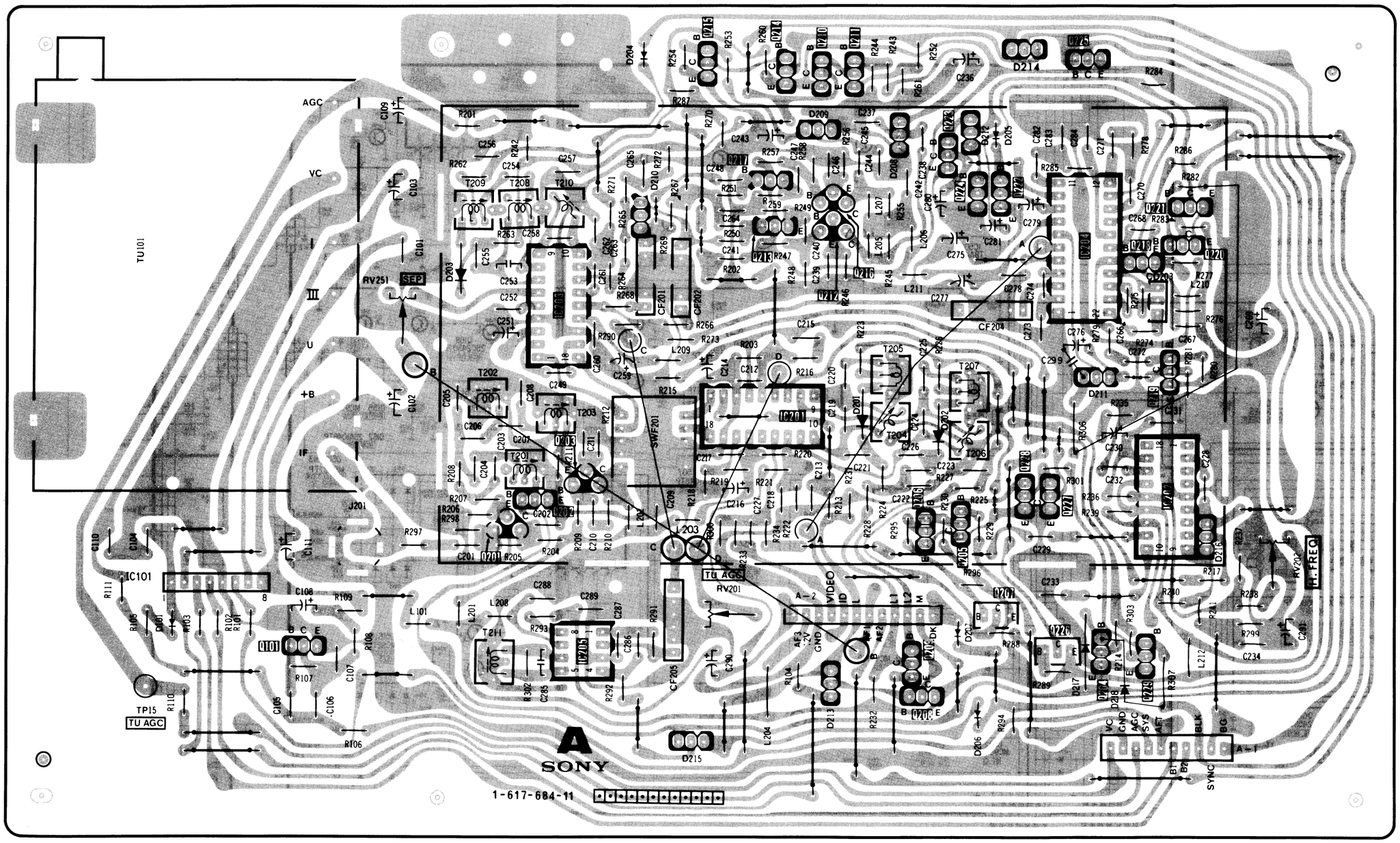


[ TUNER, BAND SW, VIF, SIF, QPT, 5.5/6.0/6.5MHz DEMOD, ] A A M
[ STEREO ID, SYST ID, SYST SW, H SYNC OSC, ]

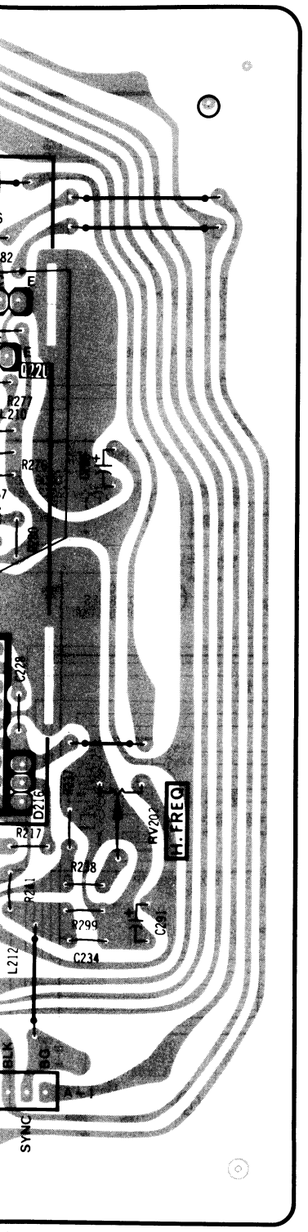
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J

– A Board –

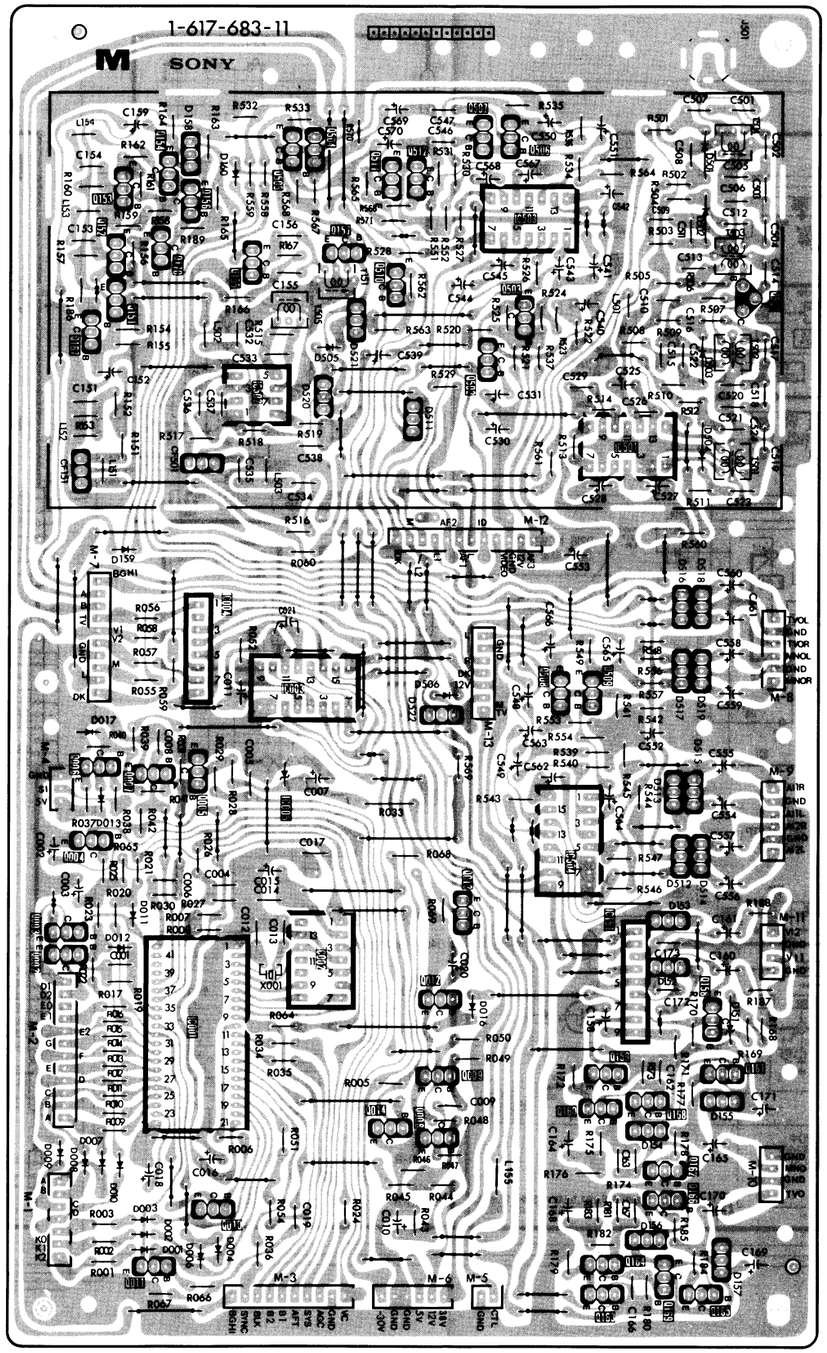



| IC , Q | D | ADJ | TP |
|---|---|---|---|
| 215 225 214 210 211 | 214 204 | | |
| 223 | 209 208 212 | | |
| 217 224 222 216 221 213 212 IC204 220 | 210 | | |
| 218 | 203 | | |
| IC203 | | RV251 | |
| 219 | 211 | | |
| IC201 | 201 202 | | |
| 203 228 227 IC202 202 206 205 | | | |
| 201 | 216 | | |
| | | RV202 | |
| | | RV201 | |
| | 101 207 | | |
| 101 226 204 229 IC205 209 | 217 | | |
| | 213 218 206 | | TP15 |
| | 215 | | |
| IC , Q | D | ADJ | TP |



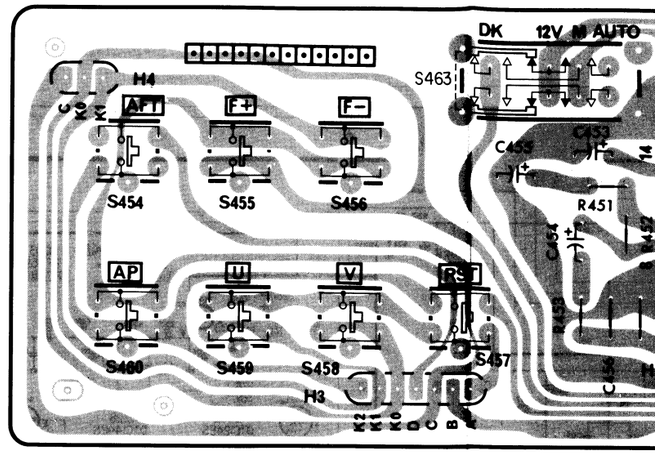

| IC , Q | D | ADJ | TP |
|---|---|---|---|
| 215 225<br>214 210 211 | 214<br>204 | | |
| 223 | 209<br>208 212 | | |
| 217<br>224 222<br>216 221<br>213 212<br>IC204 220<br>218 | 210 | | |
| IC203 | 203 | RV251 | |
| 219 | 211 | | |
| IC201 | 201<br>202 | | |
| 203<br>228 227 IC202<br>202<br>206 205<br>201 | 216 | RV202 | |
| | 101<br>207 | RV201 | |
| 101 226 204 229<br>IC205 209 | 217<br>213<br>218<br>206<br>215 | | TP15 |
| IC , Q | D | ADJ | TP |

— M Board —

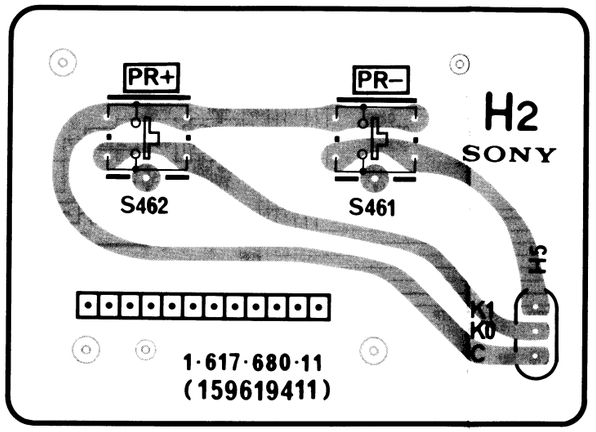



| IC , Q | D |
|---|---|
| 507 506<br>505 504<br>514 511 512<br>153<br>156<br>IC503<br>152 170 157<br>155<br>510<br>151 501<br>167 503<br>502<br>IC502<br>IC501 | 501<br>518<br>160<br>502<br>521<br>505<br>503<br>520<br>511<br>504<br>159 |
| IC004<br>IC103 508 509<br>006 007 005 IC005<br>004 IC504<br>013<br>003<br>002 IC002<br>012<br>158<br>IC001<br>009 159 161<br>160 168<br>014<br>008<br>162<br>166<br>010<br>011 164<br>169<br>163 165 | 516 518<br>517 519<br>506<br>522<br>017<br>013 513 515<br>512 514<br>011 153<br>012<br>152<br>016 151<br>155<br>154<br>009<br>008 007 010<br>003<br>002 156<br>001 004<br>006 157 |
| IC , Q | D |

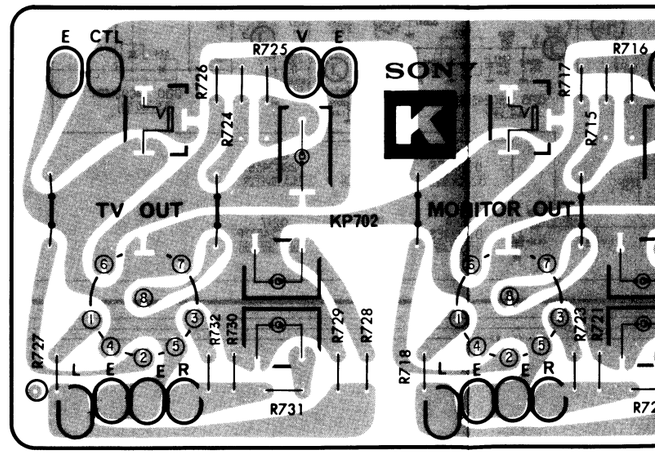
— $H_1$ Board —




— $H_2$ Board —

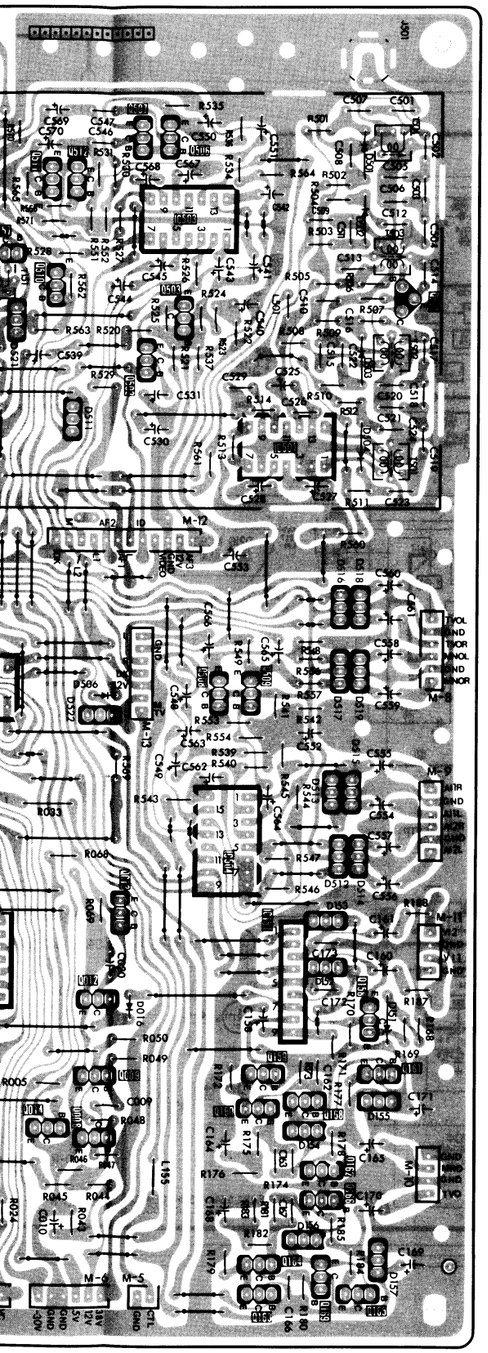



— K Board —

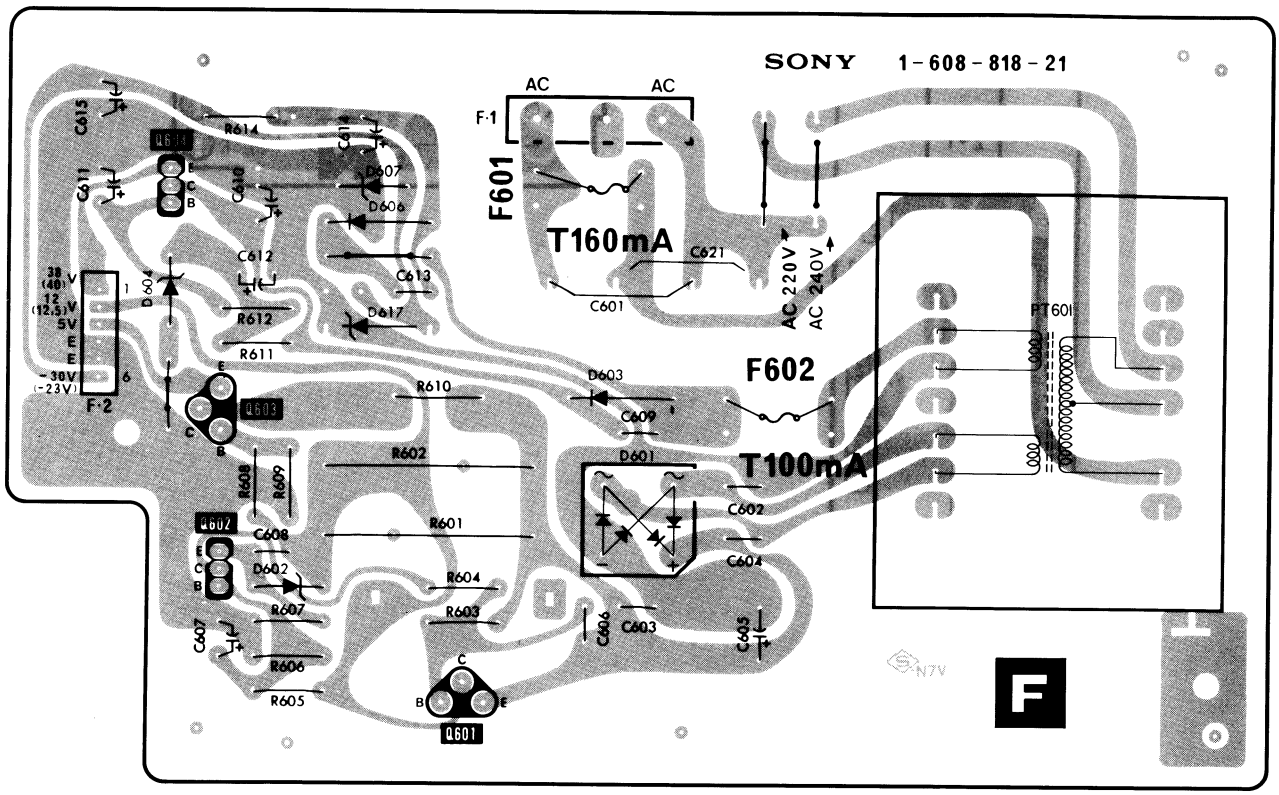


ORY, VIDEO/MON SW, AM SOUND IF, ) DEMOD, ST MATRIX, TV MON DRIVE, ON SW, SOUND MUTE ] **M** [CUSTOMER CONTROL HEADPHONE AMP] **H1** [ SW ] **H2** [VIDEO IN, TV OUT MONITOR OUT] **K** **K** **H1** **H2**

19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35



— F Board —

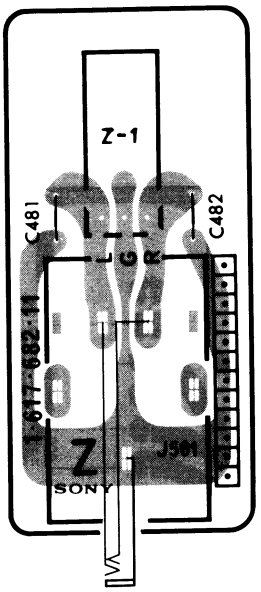

SONY 1-608-818-21
AC
AC
F-1
F601
T160mA
C601
C621
AC 220V
AC 240V
F602
T100mA
PT601
D603
C609
D601
C602
C604
R610
R602
R601
R604
R603
C606
C603
C605
D607
D606
C612
C613
D617
R612
R611
C615
C611
C610
R614
D604
R608
R609
C608
D602
R607
C607
R606
R605
Q601
Q602
Q603
F-2
F

Z [HEAD PHONE JACK] N [REMOCON RECEIVE] HL [CHANNEL INDICATOR]

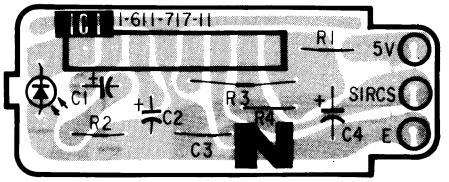
1 2 3 4 5 6 7

A B C D E F G H I J

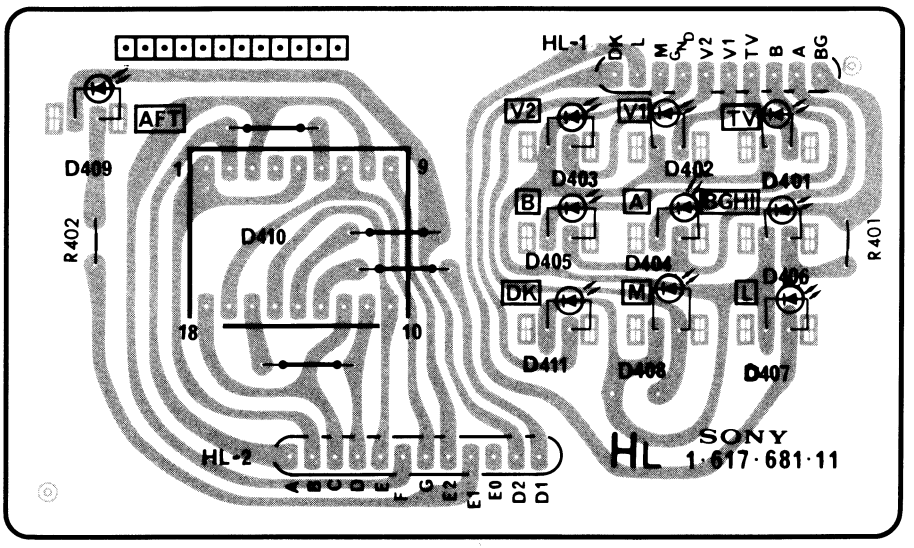
— Z Board —




— N Board —




— HL Board —



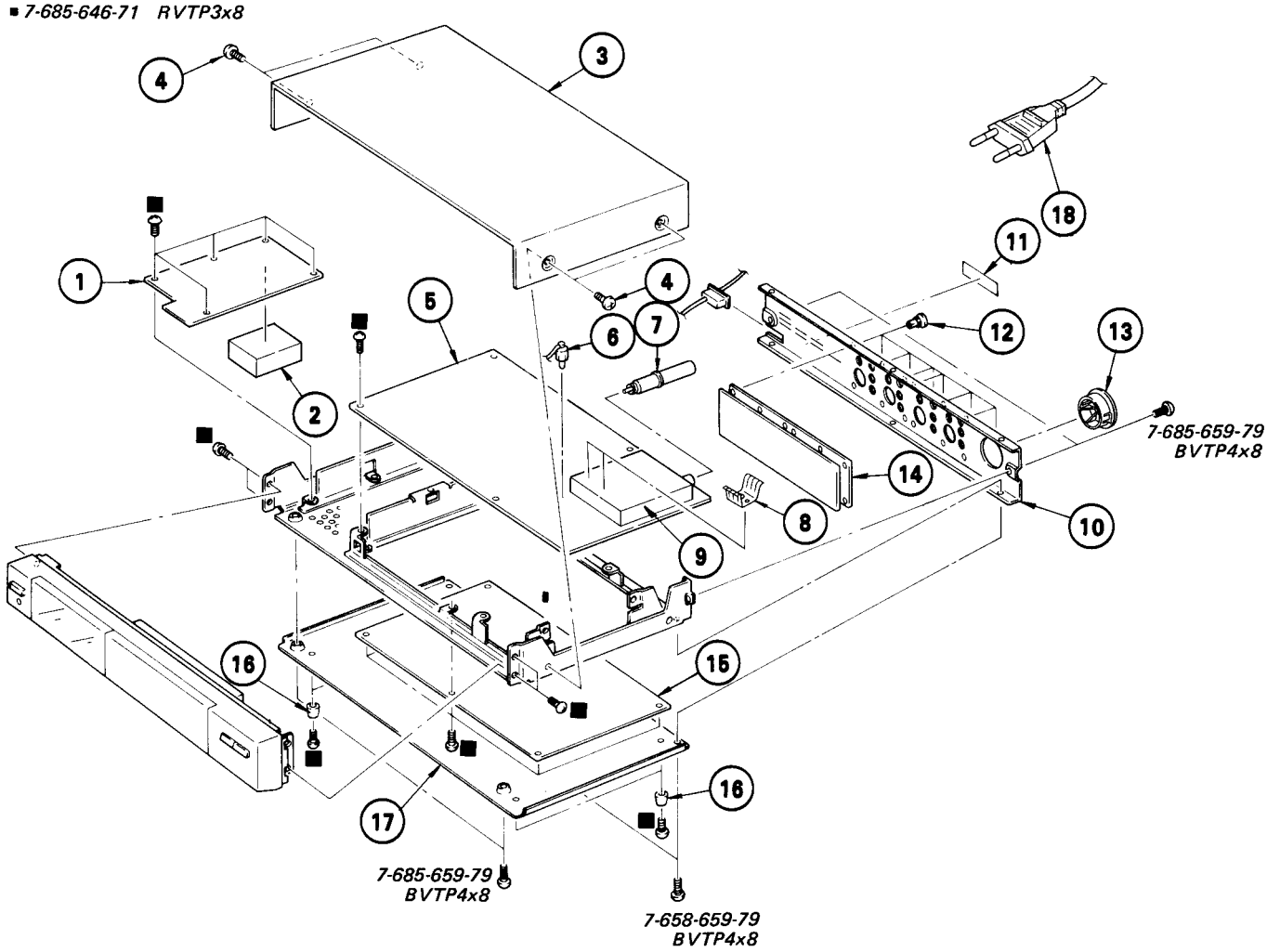
# SECTION 5
# EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

## 5-1. CASE

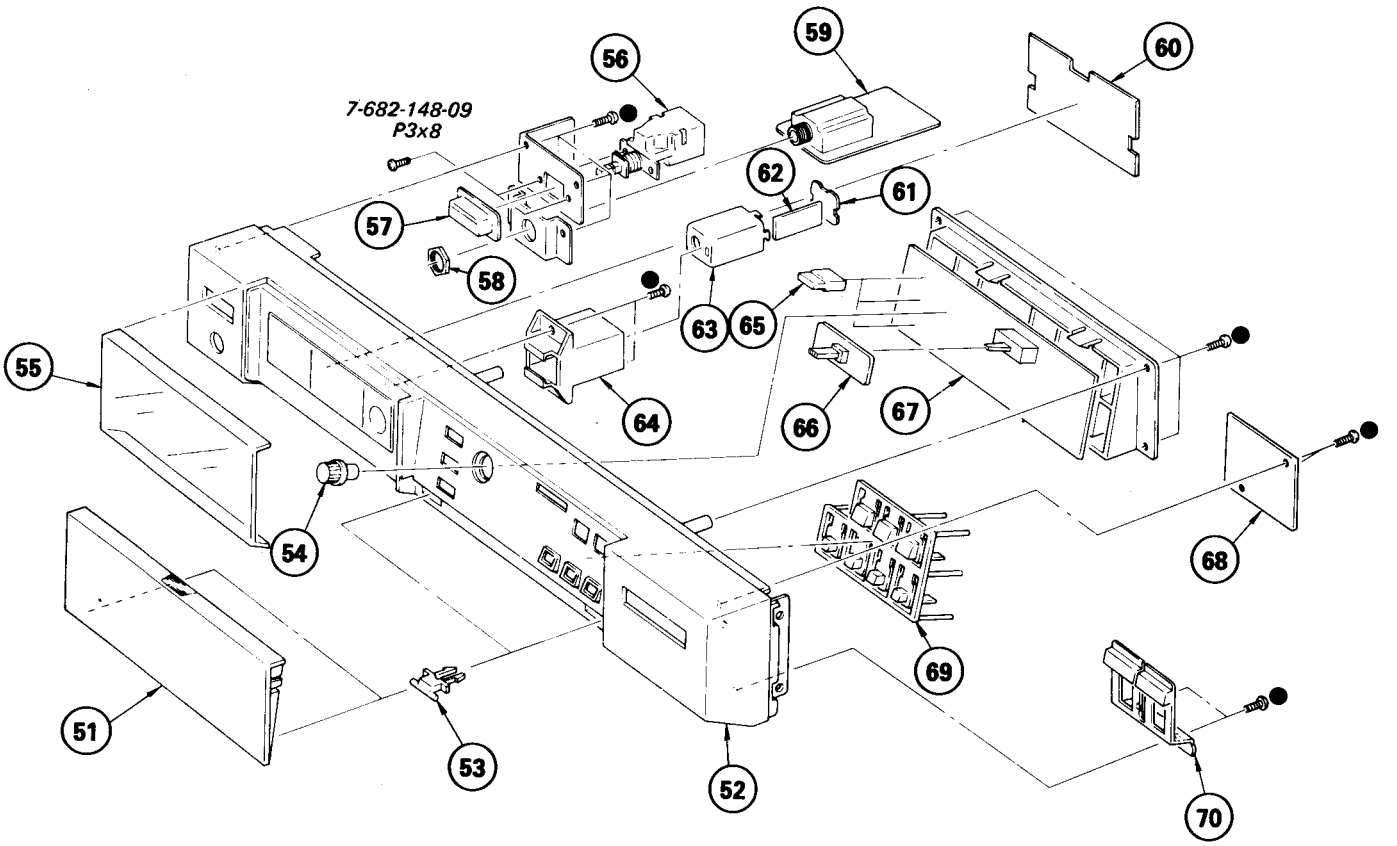
■ *7-685-646-71 RVTP3x8*




| No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | *A-1240-671-A | F BOARD, COMPLETE | |
| 2 | *4-361-180-01 | CUSHION | |
| 3 | *4-354-830-21 | CASE | |
| 4 | 4-847-802-11 | SCREW, CASE STOPPER | |
| 5 | *A-1296-091-A | A BOARD, COMPLETE | |
| 6 | *1-555-110-00 | CABLE, PIN | |
| 7 | ⚠1-526-854-11 | SOCKET, ANTENNA (WITH PLUG) | |
| 8 | 4-302-978-00 | SPRING | |
| 9 | ⚠1-463-577-31 | TUNER, ET (BT-883AD) | |
| 10 | *4-361-192-01 | PANEL, REAR | |
| 11 | *4-361-185-01 | LABEL, MODEL NUMBER | |
| 12 | 4-812-134-11 | RIVET NYLON, 3.5 | |
| 13 | 4-361-188-01 | BUSHING, ANTENNA GUIDE | |
| 14 | *1-607-156-00 | K BOARD | |
| 15 | *A-1306-360-A | M BOARD, COMPLETE | |
| 16 | X-3556-910-0 | FOOT ASSY, MF | |
| 17 | *4-357-823-00 | LID, BOTTOM | |
| 18 | ⚠1-551-270-31 | CORD, POWER | |

## 5-2. FRONT PANEL

• *7-685-648-71 BVTP3x12*




| No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | X-4357-843-1 | DOOR ASSY | 53 |
| 52 | X-4357-845-1 | PANEL ASSY, FRONT | 51 |
| 53 | 3-703-035-11 | SHAFT, LID | |
| 54 | 4-357-814-00 | KNOB, CONTROL | |
| 55 | 4-357-816-00 | COVER, TRANSPARENT | |
| 56 | ⚠1-570-052-12 | SWITCH, PUSH (AC POWER)(1 KEY) | |
| 57 | 4-357-806-00 | BUTTON, POWER | |
| 58 | 4-369-780-01 | NUT | |
| 59 | *1-617-682-11 | Z BOARD | |
| 60 | *1-617-681-11 | HL BOARD | |
| 61 | *4-342-118-00 | LID, SHIELD CASE, R | |
| 62 | *1-611-717-11 | N BOARD | |
| 63 | *4-342-117-00 | CASE, SHIELD (MAIN), R | |
| 64 | *4-357-119-00 | BRACKET, CATCHER, RAY | |
| 65 | 4-357-804-00 | BUTTON, ANTENNA | |
| 66 | 4-361-184-01 | BUTTON, ID | |
| 67 | *1-617-679-11 | H1 BOARD | |
| 68 | *1-617-680-11 | H2 BOARD | |
| 69 | 4-357-815-00 | BUTTON, FUNCTION | |
| 70 | 4-357-819-00 | BUTTON, PROGRAM | |

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

# SECTION 6
# ELECTRICAL PARTS LIST

F N A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| | *A-1240-671-A | F BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | CAPACITOR | | | | |
| C601 | ⚠1-117-121-11 | PAPER | 0.22MF | 20% | 250V | |
| C602 | ⚠1-108-622-11 | MYLAR | 0.0047MF | 10% | 100V | |
| C603 | ⚠1-108-622-11 | MYLAR | 0.0047MF | 10% | 100V | |
| C604 | ⚠1-108-622-11 | MYLAR | 0.0047MF | 10% | 100V | |
| C605 | 1-123-339-00 | ELECT | 3300MF | 20% | 25V | |
| C606 | 1-106-188-00 | MYLAR | 0.0047MF | 10% | 100V | |
| C607 | 1-123-318-00 | ELECT | 33MF | 20% | 16V | |
| C608 | 1-106-188-00 | MYLAR | 0.0047MF | 10% | 100V | |
| C609 | 1-106-188-00 | MYLAR | 0.0047MF | 10% | 100V | |
| C610 | 1-123-385-00 | ELECT | 22MF | 20% | 100V | |
| C611 | 1-123-356-00 | ELECT | 10MF | 20% | 50V | |
| C612 | 1-123-356-00 | ELECT | 10MF | 20% | 50V | |
| C613 | 1-106-188-00 | MYLAR | 0.0047MF | 10% | 100V | |
| C614 | 1-123-385-00 | ELECT | 22MF | 20% | 100V | |
| C615 | 1-123-356-00 | ELECT | 10MF | 20% | 50V | |
| | | DIODE | | | | |
| D601 | ⚠8-719-503-06 | DIODE S3WB60Z | | | | |
| D602 | 8-719-100-42 | DIODE RD6.8E-B3 | | | | |
| D603 | 8-719-200-02 | DIODE 10E2 | | | | |
| D604 | 8-719-115-21 | DIODE RD39JS-B | | | | |
| D606 | 8-719-200-02 | DIODE 10E2 | | | | |
| D607 | 8-719-100-98 | DIODE RD30E-B2 | | | | |
| | | CONNECTOR | | | | |
| F1 | *1-506-348-XX | 3P PLUG (L) | | | | |
| F2 | *1-560-126-00 | PLUG, CONNECTOR (2.5MM) 6P | | | | |
| | | FUSE | | | | |
| F601 | ⚠1-532-612-11 | FUSE, TIME-LAG 0.16A/250V | | | | |
| | *1-533-146-00 | HOLDER, FUSE; F601 | | | | |
| F602 | ⚠1-532-610-11 | FUSE, TIME-LAG 0.1A/250V | | | | |
| | *1-533-146-00 | HOLDER, FUSE; F602 | | | | |
| | | TRANSFORMER | | | | |
| PT601 | ⚠1-447-713-11 | TRANSFORMER, POWER | | | | |
| | | TRANSISTOR | | | | |
| Q601 | 8-729-177-23 | TRANSISTOR 2SB772 | | | | |
| | 4-303-483-00 | HEAD, WASHER, TAPPING SCREW; Q601 | | | | |
| Q602 | 8-729-178-54 | TRANSISTOR 2SC2785 | | | | |
| Q603 | 8-729-378-84 | TRANSISTOR 2SD788 | | | | |
| Q604 | 8-729-178-54 | TRANSISTOR 2SC2785 | | | | |
| | | RESISTOR | | | | |
| R601 | ⚠1-206-525-61 | METAL OXIDE | 39 | 5% | 3W | F |
| R602 | ⚠1-206-525-61 | METAL OXIDE | 39 | 5% | 3W | F |
| R603 | 1-247-705-11 | CARBON | 270 | 5% | 1/4W | |
| R604 | 1-246-463-25 | CARBON | 390 | 5% | 1/4W | |
| R605 | 1-247-148-00 | CARBON | 5.1K | 5% | 1/4W | |
| R606 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W | |
| R607 | 1-246-463-25 | CARBON | 390 | 5% | 1/4W | |
| R608 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | |
| R609 | 1-247-138-00 | CARBON | 2K | 5% | 1/4W | |
| R610 | 1-216-427-00 | METAL OXIDE | 120 | 5% | 1W | F |
| R611 | 1-247-725-11 | CARBON | 10K | 5% | 1/4W | |
| R612 | 1-247-725-11 | CARBON | 10K | 5% | 1/4W | |
| R614 | 1-247-756-11 | CARBON | 2.2K | 5% | 1/2W | F |
| | *1-611-717-11 | N BOARD | | | | |
| | | ******* | | | | |
| | *4-342-117-00 | CASE, SHIELD (MAIN), R | | | | |
| | *4-342-118-00 | LID, SHIELD CASE, R | | | | |
| | | CAPACITOR | | | | |
| C1 | 1-123-611-00 | ELECT | 1MF | 20% | 50V | |
| C2 | 1-123-613-00 | ELECT | 3.3MF | 20% | 50V | |
| C3 | 1-102-112-00 | CERAMIC | 330PF | 10% | 50V | |
| C4 | 1-123-821-00 | ELECT | 47MF | 20% | 16V | |
| | | DIODE | | | | |
| D1 | 8-719-110-32 | DIODE PH302B | | | | |
| | | IC | | | | |
| IC1 | 8-752-010-60 | IC CX20106 | | | | |
| | | RESISTOR | | | | |
| R1 | 1-247-799-00 | CARBON | 47 | 5% | 1/6W | |
| R2 | 1-247-775-00 | CARBON | 4.7 | 5% | 1/6W | |
| R3 | 1-214-784-00 | METAL | 200K | 1% | 1/4W | |
| R4 | 1-247-863-00 | CARBON | 22K | 5% | 1/6W | |
| | *A-1296-091-A | A BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | CONNECTOR | | | | |
| A1 | *1-560-224-00 | PLUG, CONNECTOR (2.5MM) 10P | | | | |
| A2 | *1-560-156-00 | PLUG, CONNECTOR (2.5MM PITCH) | | | | |
| | | CAPACITOR | | | | |
| C101 | 1-108-837-00 | MYLAR | 0.01MF | 10% | 50V | |
| C102 | 1-123-356-00 | ELECT | 10MF | 20% | 16V | |
| C103 | 1-123-356-00 | ELECT | 10MF | 20% | 16V | |
| C104 | 1-108-837-00 | MYLAR | 0.01MF | 10% | 50V | |
| C105 | 1-136-163-00 | FILM | 0.068MF | 5% | 50V | |
| C106 | 1-136-163-00 | FILM | 0.068MF | 5% | 50V | |
| C107 | 1-102-963-00 | CERAMIC | 33PF | 5% | 50V | |
| C108 | 1-123-318-00 | ELECT | 33MF | 20% | 16V | |
| C109 | 1-123-356-00 | ELECT | 10MF | 20% | 16V | |

# A

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C110 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C111 | 1-124-475-11 | ELECT | 470MF | 20% | 16V |
| C201 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C202 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C203 | 1-101-969-00 | CERAMIC | 5PF | 0.5PF | 50V |
| C204 | 1-101-969-00 | CERAMIC | 5PF | 0.5PF | 50V |
| C205 | 1-102-530-00 | CERAMIC | 120PF | 5% | 50V |
| C206 | 1-102-531-00 | CERAMIC | 150PF | 5% | 50V |
| C207 | 1-102-851-00 | CERAMIC | 15PF | 5% | 50V |
| C208 | 1-102-523-00 | CERAMIC | 56PF | 5% | 50V |
| C209 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C210 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C211 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C212 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C213 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C214 | 1-123-381-00 | ELECT | 2.2MF | 20% | 50V |
| C215 | 1-124-002-11 | ELECT | 1MF | 20% | 50V |
| C216 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C217 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C218 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C219 | 1-102-621-00 | CERAMIC | 68PF | 5% | 50V |
| C220 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C221 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C222 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C223 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C224 | 1-102-621-00 | CERAMIC | 68PF | 5% | 50V |
| C225 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C226 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C227 | 1-101-361-00 | CERAMIC | 150PF | 5% | 50V |
| C228 | 1-101-880-00 | CERAMIC | 47PF | 5% | 50V |
| C229 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C230 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V |
| C231 | 1-106-196-00 | MYLAR | 0.01MF | 10% | 100V |
| C232 | 1-103-741-00 | POLYSTYRENE | 0.0047MF | 5% | 50V |
| C233 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C234 | 1-102-824-21 | CERAMIC | 470PF | 5% | 50V |
| C236 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C237 | 1-102-949-00 | CERAMIC | 12PF | 5% | 50V |
| C238 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C239 | 1-161-051-00 | CERAMIC | 0.01MF | 10% | 50V |
| C240 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C241 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C242 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C243 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C244 | 1-102-949-00 | CERAMIC | 12PF | 5% | 50V |
| C245 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C246 | 1-161-051-00 | CERAMIC | 0.01MF | 10% | 50V |
| C247 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C248 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C249 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C251 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C252 | 1-101-361-00 | CERAMIC | 150PF | 5% | 50V |
| C253 | 1-104-069-00 | POLYSTYRENE | 470PF | 5% | 50V |

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C254 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C255 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C256 | 1-161-051-00 | CERAMIC | 0.01MF | 10% | 50V |
| C257 | 1-161-051-00 | CERAMIC | 0.01MF | 10% | 50V |
| C258 | 1-102-621-00 | CERAMIC | 68PF | 5% | 50V |
| C259 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C260 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C261 | 1-161-051-00 | CERAMIC | 0.01MF | 10% | 50V |
| C262 | 1-161-051-00 | CERAMIC | 0.01MF | 10% | 50V |
| C263 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C264 | 1-161-051-00 | CERAMIC | 0.01MF | 10% | 50V |
| C265 | 1-161-051-00 | CERAMIC | 0.01MF | 10% | 50V |
| C266 | 1-102-530-00 | CERAMIC | 120PF | 5% | 50V |
| C267 | 1-130-072-00 | FILM | 0.022MF | 2% | 100V |
| C268 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C269 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C270 | 1-108-620-91 | MYLAR | 0.0033MF | 10% | 100V |
| C271 | 1-108-620-91 | MYLAR | 0.0033MF | 10% | 100V |
| C272 | 1-102-959-00 | CERAMIC | 22PF | 5% | 50V |
| C273 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C274 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C275 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C276 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C277 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C278 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C279 | 1-123-332-00 | ELECT | 47MF | 20% | 16V |
| C280 | 1-123-332-00 | ELECT | 47MF | 20% | 16V |
| C281 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C282 | 1-106-192-00 | MYLAR | 0.0068MF | 10% | 100V |
| C283 | 1-108-618-91 | MYLAR | 0.0022MF | 10% | 100V |
| C284 | 1-108-618-91 | MYLAR | 0.0022MF | 10% | 100V |
| C285 | 1-104-065-00 | POLYSTYRENE | 330PF | 5% | 50V |
| C286 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C287 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C288 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C289 | 1-108-837-00 | MYLAR | 0.01MF | 10% | 50V |
| C290 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C291 | 1-123-356-00 | ELECT | 10MF | 20% | 16V |
| C299 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |

### DISCRIMINATOR

| | | |
|---|---|---|
| CD203 | 1-404-501-00 | DISCRIMINATOR, CERAMIC |

### FILTER

| | | |
|---|---|---|
| CF201 | 1-567-569-11 | FILTER, CERAMIC |
| CF202 | 1-527-840-00 | FILTER, CERAMIC |
| CF204 | 1-527-839-00 | FILTER, CERAMIC |
| CF205 | 1-567-570-11 | FILTER, CERAMIC |
| SWF201 | 1-404-438-00 | FILTER, SAW |

### DIODE

| | | |
|---|---|---|
| D101 | 8-719-911-19 | DIODE 1SS119 |
| D201 | 8-719-903-27 | DIODE 1SS168 |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| D202 | 8-719-903-27 | DIODE 1SS168 | |
| D203 | 8-719-903-27 | DIODE 1SS168 | |
| D204 | 8-719-911-19 | DIODE 1SS119 | |
| D205 | 8-719-911-19 | DIODE 1SS119 | |
| D206 | 8-719-911-19 | DIODE 1SS119 | |
| D207 | 8-719-911-19 | DIODE 1SS119 | |
| D208 | 8-719-000-12 | DIODE MC931 | |
| D209 | 8-719-000-12 | DIODE MC931 | |
| D210 | 8-719-000-12 | DIODE MC931 | |
| D211 | 8-719-000-06 | DIODE MC921 | |
| D212 | 8-719-000-04 | DIODE MC911 | |
| D213 | 8-719-000-04 | DIODE MC911 | |
| D214 | 8-719-000-06 | DIODE MC921 | |
| D215 | 8-719-000-06 | DIODE MC921 | |
| D216 | 8-719-000-06 | DIODE MC921 | |
| D217 | 8-719-911-19 | DIODE 1SS119 | |
| D218 | 8-719-911-19 | DIODE 1SS119 | |
| | | IC | |
| IC101 | 8-759-602-1 | IC M54572L | |
| IC201 | 8-759-911-16 | IC TDA4429T | |
| | *4-369-734-01 | HEAT SINK; IC201 | |
| IC202 | 6-066-720-50 | IC TDA2595 | |
| IC203 | 8-759-909-54 | IC TDA2546A | |
| IC204 | 8-759-007-54 | IC TDA4940 | |
| IC205 | 8-759-003-90 | IC TBA129 | |
| | | JACK | |
| J201 | 1-526-575-00 | SOCKET, PLUG | |
| | | COIL | |
| L101 | 1-407-489-00 | MICRO INDUCTOR 560UH | |
| L201 | 1-408-406-00 | MICRO INDUCTOR 5.6UH | |
| L202 | 1-408-593-00 | MICRO INDUCTOR 1.5UH | |
| L203 | 1-408-406-00 | MICRO INDUCTOR 5.6UH | |
| L204 | 1-408-225-00 | MICRO INDUCTOR 3.3UH | |
| L205 | 1-408-417-00 | MICRO INDUCTOR 47UH | |
| L206 | 1-408-406-00 | MICRO INDUCTOR 5.6UH | |
| L207 | 1-408-417-00 | MICRO INDUCTOR 47UH | |
| L208 | 1-408-406-00 | MICRO INDUCTOR 5.6UH | |
| L209 | 1-408-406-00 | MICRO INDUCTOR 5.6UH | |
| L210 | 1-408-622-00 | MICRO INDUCTOR 390UH | |
| L211 | 1-408-406-00 | MICRO INDUCTOR 5.6UH | |
| L212 | 1-407-705-00 | MICRO INDUCTOR 100UH | |
| | | TRANSISTOR | |
| Q101 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q201 | 8-729-901-59 | TRANSISTOR BF199 | |
| Q202 | 8-729-900-36 | TRANSISTOR DTC124ES | |
| Q203 | 8-729-000-12 | TRANSISTOR BF959 | |
| Q204 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q205 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q206 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q207 | 8-729-113-32 | TRANSISTOR 2SB733 | |
| Q208 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q209 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q210 | 8-729-900-63 | TRANSISTOR DTA124ES | |
| Q211 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q212 | 8-729-901-59 | TRANSISTOR BF199 | |
| Q213 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q214 | 8-729-900-63 | TRANSISTOR DTA124ES | |
| Q215 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q216 | 8-729-901-59 | TRANSISTOR BF199 | |
| Q217 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q218 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q219 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q220 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q221 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q222 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q223 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q224 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q225 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q226 | 8-729-113-32 | TRANSISTOR 2SB733 | |
| Q227 | 8-729-900-36 | TRANSISTOR DTC124ES | |
| Q228 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q229 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| | | RESISTOR | |
| R101 | 1-247-845-00 | CARBON 3.9K 5% 1/6W | |
| R102 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R103 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R104 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R105 | 1-247-903-00 | CARBON 1M 5% 1/6W | |
| R106 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R107 | 1-247-891-00 | CARBON 330K 5% 1/6W | |
| R108 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| R109 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| R110 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R111 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | |
| R201 | 1-247-807-00 | CARBON 100 5% 1/6W | |
| R202 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | |
| R203 | 1-247-853-00 | CARBON 8.2K 5% 1/6W | |
| R204 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R205 | 1-249-429-11 | CARBON 10K 5% 1/6W | |
| R206 | 1-247-827-00 | CARBON 680 5% 1/6W | |
| R207 | 1-247-791-00 | CARBON 22 5% 1/6W | |
| R208 | 1-247-799-00 | CARBON 47 5% 1/6W | |
| R209 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R210 | 1-247-811-00 | CARBON 150 5% 1/6W | |
| R211 | 1-247-845-00 | CARBON 3.9K 5% 1/6W | |
| R212 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R213 | 1-247-807-00 | CARBON 100 5% 1/6W | |
| R214 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R215 | 1-247-903-00 | CARBON 1M 5% 1/6W | |
| R216 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R217 | 1-247-851-00 | CARBON 6.8K 5% 1/6W | |
| R218 | 1-247-859-00 | CARBON 15K 5% 1/6W | |
| R219 | 1-247-859-00 | CARBON 15K 5% 1/6W | |

# A

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R220 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R221 | 1-247-857-00 | CARBON | 12K | 5% | 1/6W | |
| R222 | 1-247-883-00 | CARBON | 150K | 5% | 1/6W | |
| R223 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R224 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R225 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W | |
| R226 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R227 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R228 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W | |
| R229 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R230 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R231 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R232 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R233 | 1-247-811-00 | CARBON | 150 | 5% | 1/6W | |
| R234 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W | |
| R235 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R236 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R237 | 1-247-857-00 | CARBON | 12K | 5% | 1/6W | |
| R238 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R239 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R240 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R241 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | |
| R242 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R243 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R244 | 1-249-434-11 | CARBON | 27K | 5% | 1/6W | |
| R245 | 1-247-845-00 | CARBON | 3.9K | 5% | 1/6W | |
| R246 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R247 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R248 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R249 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R250 | 1-247-867-00 | CARBON | 33K | 5% | 1/6W | |
| R251 | 1-247-867-00 | CARBON | 33K | 5% | 1/6W | |
| R252 | 1-247-833-00 | CARBON | 1.2K | 5% | 1/6W | |
| R253 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R254 | 1-249-434-11 | CARBON | 27K | 5% | 1/6W | |
| R255 | 1-247-843-00 | CARBON | 3.3K | 5% | 1/6W | |
| R256 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R257 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R258 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R259 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R260 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R261 | 1-247-819-00 | CARBON | 330 | 5% | 1/6W | |
| R262 | 1-247-843-00 | CARBON | 3.3K | 5% | 1/6W | |
| R263 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R264 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R265 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R266 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R267 | 1-247-845-00 | CARBON | 3.9K | 5% | 1/6W | |
| R268 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R269 | 1-247-845-00 | CARBON | 3.9K | 5% | 1/6W | |
| R270 | 1-247-837-00 | CARBON | 1.8K | 5% | 1/6W | |
| R271 | 1-247-843-00 | CARBON | 3.3K | 5% | 1/6W | |
| R272 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R273 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R274 | 1-247-821-00 | CARBON | 390 | 5% | 1/6W | |
| R275 | 1-247-821-00 | CARBON | 390 | 5% | 1/6W | |
| R276 | 1-247-845-00 | CARBON | 3.9K | 5% | 1/6W | |
| R277 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R278 | 1-247-869-00 | CARBON | 39K | 5% | 1/6W | |
| R279 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R280 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R281 | 1-247-879-00 | CARBON | 100K | 5% | 1/6W | |
| R282 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R283 | 1-247-867-00 | CARBON | 33K | 5% | 1/6W | |
| R284 | 1-247-843-00 | CARBON | 3.3K | 5% | 1/6W | |
| R285 | 1-249-440-11 | CARBON | 82K | 5% | 1/6W | |
| R286 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R287 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R288 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R289 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R290 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R291 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R292 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R293 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R294 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R295 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R296 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R297 | 1-247-795-00 | CARBON | 33 | 5% | 1/6W | |
| R298 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R299 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R300 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R302 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R303 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R306 | 1-247-163-00 | CARBON | 22K | 5% | 1/4W | |
| R307 | 1-247-725-11 | CARBON | 10K | 5% | 1/4W | |

## VARIABLE RESISTOR

| | | | |
|---|---|---|---|
| RV201 | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K |
| RV202 | 1-228-727-00 | RES, ADJ, CERAMIC CARBON | 47K |
| RV251 | 1-228-725-00 | RES, ADJ, CERAMIC CARBON | 22K |

## TRANSFORMER

| | | |
|---|---|---|
| T201 | 1-409-372-00 | COIL, TRAP |
| T202 | 1-404-476-00 | COIL, IF |
| T203 | 1-404-476-00 | COIL, IF |
| T204 | 1-404-558-11 | COIL |
| T205 | 1-404-556-11 | COIL |
| T206 | 1-404-558-11 | COIL |
| T207 | 1-404-556-11 | COIL |
| T208 | 1-404-477-00 | COIL, IF |
| T209 | 1-404-660-11 | COIL |
| T210 | 1-404-493-00 | COIL |
| T211 | 1-404-477-00 | COIL, IF |

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | TUNER | | | |
| TU101⚠ | 1-463-577-31 | TUNER, ET (BT-883AD) | | | |
| ********** | | | | | |
| | *A-1306-360-A | M BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | CAPACITOR | | | |
| C001 | 1-102-112-00 | CERAMIC | 330PF | 10% | 50V |
| C002 | 1-123-381-00 | ELECT | 2.2MF | 20% | 50V |
| C003 | 1-123-381-00 | ELECT | 2.2MF | 20% | 50V |
| C004 | 1-161-013-00 | CERAMIC | 0.01MF | 10% | 25V |
| C005 | 1-136-165-00 | MYLAR | 0.1MF | 10% | 50V |
| C006 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |
| C007 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C008 | 1-102-123-00 | CERAMIC | 0.0033MF | 10% | 50V |
| C009 | 1-136-165-00 | MYLAR | 0.1MF | 10% | 50V |
| C010 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C011 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C012 | 1-102-959-00 | CERAMIC | 22PF | 5% | 50V |
| C013 | 1-102-963-00 | CERAMIC | 33PF | 5% | 50V |
| C014 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C015 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C016 | 1-123-307-00 | ELECT | 100MF | 20% | 10V |
| C017 | 1-161-025-00 | CERAMIC | 0.1MF | 10% | 25V |
| C018 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C019 | 1-124-002-11 | ELECT | 1MF | 20% | 50V |
| C020 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C021 | 1-123-332-00 | ELECT | 47MF | 20% | 16V |
| C151 | 1-101-361-00 | CERAMIC | 150PF | 5% | 50V |
| C152 | 1-123-307-00 | ELECT | 100MF | 20% | 10V |
| C153 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |
| C154 | 1-102-971-00 | CERAMIC | 82PF | 5% | 50V |
| C155 | 1-102-662-00 | CERAMIC | 7PF | 0.5PF | 50V |
| C156 | 1-102-662-00 | CERAMIC | 7PF | 0.5PF | 50V |
| C158 | 1-123-332-00 | ELECT | 47MF | 20% | 16V |
| C159 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C160 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C161 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C162 | 1-102-965-00 | CERAMIC | 39PF | 5% | 50V |
| C163 | 1-102-947-00 | CERAMIC | 10PF | 5% | 50V |
| C164 | 1-123-333-00 | ELECT | 100MF | 20% | 16V |
| C165 | 1-124-475-11 | ELECT | 470MF | 20% | 16V |
| C166 | 1-102-965-00 | CERAMIC | 39PF | 5% | 50V |
| C167 | 1-102-947-00 | CERAMIC | 10PF | 5% | 50V |
| C168 | 1-123-333-00 | ELECT | 100MF | 20% | 16V |
| C169 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C170 | 1-124-475-11 | ELECT | 470MF | 20% | 16V |
| C171 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C172 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |
| C173 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |
| C501 | 1-102-934-00 | CERAMIC | 1PF | 0.25PF | 50V |
| C502 | 1-102-852-00 | CERAMIC | 47PF | 5% | 50V |
| C503 | 1-102-510-00 | CERAMIC | 12PF | 5% | 50V |
| C504 | 1-102-852-00 | CERAMIC | 47PF | 5% | 50V |
| C505 | 1-102-529-00 | CERAMIC | 100PF | 5% | 50V |
| C506 | 1-102-530-00 | CERAMIC | 120PF | 5% | 50V |
| C507 | 1-102-516-00 | CERAMIC | 27PF | 5% | 50V |
| C508 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C509 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C510 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C511 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C512 | 1-102-516-00 | CERAMIC | 27PF | 5% | 50V |
| C513 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C514 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C515 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C516 | 1-102-516-00 | CERAMIC | 27PF | 5% | 50V |
| C517 | 1-102-852-00 | CERAMIC | 47PF | 5% | 50V |
| C518 | 1-102-510-00 | CERAMIC | 12PF | 5% | 50V |
| C519 | 1-102-852-00 | CERAMIC | 47PF | 5% | 50V |
| C520 | 1-102-529-00 | CERAMIC | 100PF | 5% | 50V |
| C521 | 1-102-531-00 | CERAMIC | 150PF | 5% | 50V |
| C522 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C523 | 1-102-516-00 | CERAMIC | 27PF | 5% | 50V |
| C524 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C525 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C526 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C527 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C528 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V |
| C529 | 1-102-121-00 | CERAMIC | 0.0022MF | 10% | 50V |
| C530 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C531 | 1-123-306-00 | ELECT | 47MF | 20% | 10V |
| C532 | 1-161-013-00 | CERAMIC | 0.01MF | 10% | 25V |
| C533 | 1-103-721-00 | POLYSTYRENE | 680PF | 5% | 50V |
| C534 | 1-102-965-00 | CERAMIC | 39PF | 5% | 50V |
| C535 | 1-102-965-00 | CERAMIC | 39PF | 5% | 50V |
| C536 | 1-161-013-00 | CERAMIC | 0.01MF | 10% | 25V |
| C537 | 1-161-013-00 | CERAMIC | 0.01MF | 10% | 25V |
| C538 | 1-106-200-00 | MYLAR | 0.015MF | 10% | 100V |
| C539 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C540 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C541 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C542 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C543 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C544 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C545 | 1-123-380-00 | ELECT | 1MF | 20% | 50V |
| C546 | 1-108-622-91 | MYLAR | 0.0047MF | 10% | 100V |
| C547 | 1-108-622-91 | MYLAR | 0.0047MF | 10% | 100V |
| C548 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C549 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |
| C550 | 1-123-356-00 | ELECT | 10MF | 20% | 50V |
| C551 | 1-123-381-00 | ELECT | 2.2MF | 20% | 50V |
| C552 | 1-123-318-00 | ELECT | 33MF | 20% | 16V |
| C553 | 1-124-475-11 | ELECT | 470MF | 20% | 16V |
| C554 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V |

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

# M

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| C555 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V | |
| C556 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V | |
| C557 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V | |
| C558 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V | |
| C559 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V | |
| C560 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V | |
| C561 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V | |
| C562 | 1-123-356-00 | ELECT | 10MF | 20% | 50V | |
| C563 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V | |
| C564 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V | |
| C565 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V | |
| C566 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V | |
| C567 | 1-123-380-00 | ELECT | 1MF | 20% | 50V | |
| C568 | 1-123-380-00 | ELECT | 1MF | 20% | 50V | |
| C569 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V | |
| C570 | 1-123-379-00 | ELECT | 0.47MF | 20% | 50V | |
| | | FILTER | | | | |
| CF151 | 1-404-134-00 | TRAP, CERAMIC (5.5MHZ) | | | | |
| CF501 | 1-527-260-00 | FILTER, CERAMIC (4.5MHZ) | | | | |
| | | DIODE | | | | |
| D001 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D002 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D003 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D004 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D006 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D007 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D008 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D009 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D010 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D011 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D012 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D013 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D016 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D017 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D151 | 8-719-100-56 | DIODE RD10E-B1 | | | | |
| D152 | 8-719-000-12 | DIODE MC931 | | | | |
| D153 | 8-719-000-12 | DIODE MC931 | | | | |
| D154 | 8-719-000-12 | DIODE MC931 | | | | |
| D155 | 8-719-000-12 | DIODE MC931 | | | | |
| D156 | 8-719-000-12 | DIODE MC931 | | | | |
| D157 | 8-719-000-12 | DIODE MC931 | | | | |
| D158 | 8-719-000-06 | DIODE MC921 | | | | |
| D159 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D160 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D501 | 8-719-903-27 | DIODE 1SS168 | | | | |
| D502 | 8-719-903-27 | DIODE 1SS168 | | | | |
| D503 | 8-719-903-27 | DIODE 1SS168 | | | | |
| D504 | 8-719-903-27 | DIODE 1SS168 | | | | |
| D505 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D506 | 8-719-911-19 | DIODE 1SS119 | | | | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| D511 | 8-719-000-06 | DIODE MC921 | |
| D512 | 8-719-000-06 | DIODE MC921 | |
| D513 | 8-719-000-06 | DIODE MC921 | |
| D514 | 8-719-000-04 | DIODE MC911 | |
| D515 | 8-719-000-04 | DIODE MC911 | |
| D516 | 8-719-000-06 | DIODE MC921 | |
| D517 | 8-719-000-06 | DIODE MC921 | |
| D518 | 8-719-000-04 | DIODE MC911 | |
| D519 | 8-719-000-04 | DIODE MC911 | |
| D520 | 8-719-000-06 | DIODE MC921 | |
| D521 | 8-719-000-06 | DIODE MC921 | |
| D522 | 8-719-000-06 | DIODE MC921 | |
| | | IC | |
| IC001 | 8-759-602-63 | IC CX523-113P | |
| IC002 | 8-759-600-92 | IC M58657P | |
| IC003 | 8-759-340-27 | IC HD14027BP | |
| IC004 | 8-759-600-15 | IC M54570L | |
| IC005 | 8-759-157-40 | IC UPC574J | |
| IC151 | 8-759-208-94 | IC CX894 | |
| IC501 | 8-759-911-15 | IC TDA4445F | |
| IC502 | 8-759-003-90 | IC TBA129 | |
| IC503 | 8-759-007-55 | IC TDA4944 | |
| IC504 | 8-759-340-52 | IC HD14052BP | |
| | | JACK | |
| J501 | 1-526-575-00 | SOCKET, PLUG | |
| | | COIL | |
| L151 | 1-408-603-00 | MICRO INDUCTOR 10UH | |
| L152 | 1-408-408-00 | MICRO INDUCTOR 8.2UH | |
| L153 | 1-408-417-00 | MICRO INDUCTOR 47UH | |
| L154 | 1-408-413-00 | MICRO INDUCTOR 22UH | |
| L155 | 1-407-175-XX | MICRO INDUCTOR 330UH | |
| L501 | 1-408-406-00 | MICRO INDUCTOR 5.6UH | |
| L502 | 1-408-406-00 | MICRO INDUCTOR 5.6UH | |
| L503 | 1-408-413-00 | MICRO INDUCTOR 22UH | |
| | | CONNECTOR | |
| M1 | *1-560-127-00 | PLUG, CONNECTOR (2.5MM) 7P | |
| M2 | *1-560-156-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| M3 | *1-560-224-00 | PLUG, CONNECTOR (2.5MM) 10P | |
| M4 | *1-560-123-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| M5 | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| M6 | *1-560-126-00 | PLUG, CONNECTOR (2.5MM) 6P | |
| M7 | *1-560-224-00 | PLUG, CONNECTOR(2.5MM PITCH)10P | |
| M8 | *1-560-126-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| M9 | *1-560-126-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| M10 | *1-560-124-00 | PLUG, CONNECTOR (2.5MM) 4P | |
| M11 | *1-560-124-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| M12 | *1-560-156-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| M13 | *1-560-127-00 | PLUG, CONNECTOR (2.5MM PITCH) | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | TRANSISTOR | |
| Q002 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q003 | 8-729-900-74 | TRANSISTOR DTC143TS | |
| Q004 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q005 | 8-729-603-50 | TRANSISTOR 2SC403SP | |
| Q006 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q007 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q008 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q009 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q010 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q011 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q012 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q013 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q014 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q151 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q152 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q153 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q154 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q155 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q156 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q157 | 8-729-900-36 | TRANSISTOR DTC124ES | |
| Q158 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q159 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q160 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q161 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q162 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q163 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q164 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q165 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q166 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q167 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q168 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q169 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q170 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q501 | 8-729-901-59 | TRANSISTOR BF199 | |
| Q502 | 8-729-900-36 | TRANSISTOR DTC124ES | |
| Q503 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q504 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q505 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q506 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q507 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q508 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q509 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q510 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q511 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q512 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| | | RESISTOR | |
| R001 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R002 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R003 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R005 | 1-249-429-11 | CARBON 10K 5% 1/6W | |
| R006 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R007 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R008 | 1-247-841-00 | CARBON 2.7K 5% 1/6W | |
| R009 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R010 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R011 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R012 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R013 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R014 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R015 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R016 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| R017 | 1-247-799-00 | CARBON 47 5% 1/6W | |
| R019 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R020 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R021 | 1-247-859-00 | CARBON 15K 5% 1/6W | |
| R022 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R023 | 1-247-859-00 | CARBON 15K 5% 1/6W | |
| R024 | 1-247-807-00 | CARBON 100 5% 1/6W | |
| R025 | 1-247-859-00 | CARBON 15K 5% 1/6W | |
| R026 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R027 | 1-247-867-00 | CARBON 33K 5% 1/6W | |
| R028 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R029 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R030 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R031 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R033 | 1-247-837-00 | CARBON 1.8K 5% 1/8W | F |
| R034 | 1-247-823-00 | CARBON 470 5% 1/6W | |
| R035 | 1-247-823-00 | CARBON 470 5% 1/6W | |
| R036 | 1-247-823-00 | CARBON 470 5% 1/6W | |
| R037 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R038 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R039 | 1-247-829-00 | CARBON 820 5% 1/6W | |
| R040 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | |
| R041 | 1-249-429-11 | CARBON 10K 5% 1/6W | |
| R042 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R043 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R044 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R045 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R046 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R047 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R048 | 1-247-883-00 | CARBON 150K 5% 1/6W | |
| R049 | 1-247-879-00 | CARBON 100K 5% 1/6W | |
| R050 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| R051 | 1-247-831-00 | CARBON 1K 5% 1/6W | |
| R052 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R054 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R055 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| R056 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| R057 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| R058 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| R059 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| R060 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| R064 | 1-249-437-11 | CARBON 47K 5% 1/6W | |
| R065 | 1-249-433-11 | CARBON 22K 5% 1/6W | |

# M

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R066 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R067 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R068 | 1-247-891-00 | CARBON | 330K | 5% | 1/6W | |
| R069 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R151 | 1-247-833-00 | CARBON | 1.2K | 5% | 1/6W | |
| R152 | 1-247-833-00 | CARBON | 1.2K | 5% | 1/6W | |
| R153 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R154 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R155 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R156 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R157 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R158 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R159 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R160 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R161 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R162 | 1-249-414-11 | CARBON | 560 | 5% | 1/6W | |
| R163 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R164 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R165 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R166 | 1-247-821-00 | CARBON | 390 | 5% | 1/6W | |
| R167 | 1-247-817-00 | CARBON | 270 | 5% | 1/6W | |
| R168 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R169 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | |
| R170 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R171 | 1-249-414-11 | CARBON | 560 | 5% | 1/6W | |
| R172 | 1-247-833-00 | CARBON | 1.2K | 5% | 1/6W | |
| R173 | 1-247-837-00 | CARBON | 1.8K | 5% | 1/6W | |
| R174 | 1-247-827-00 | CARBON | 680 | 5% | 1/6W | |
| R175 | 1-249-414-11 | CARBON | 560 | 5% | 1/6W | |
| R176 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R177 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/6W | F |
| R178 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/6W | F |
| R179 | 1-247-833-00 | CARBON | 1.2K | 5% | 1/6W | |
| R180 | 1-247-837-00 | CARBON | 1.8K | 5% | 1/6W | |
| R181 | 1-247-827-00 | CARBON | 680 | 5% | 1/6W | |
| R182 | 1-249-414-11 | CARBON | 560 | 5% | 1/6W | |
| R183 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R184 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/6W | F |
| R185 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/6W | F |
| R186 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R187 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W | |
| R188 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W | |
| R189 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R501 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | |
| R502 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | |
| R503 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | |
| R504 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | |
| R505 | 1-247-845-00 | CARBON | 3.9K | 5% | 1/6W | |
| R506 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R507 | 1-247-821-00 | CARBON | 390 | 5% | 1/6W | |
| R508 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R509 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | |
| R510 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R511 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | |
| R512 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R513 | 1-247-827-00 | CARBON | 680 | 5% | 1/6W | |
| R514 | 1-247-851-00 | CARBON | 6.8K | 5% | 1/6W | |
| R515 | 1-247-837-00 | CARBON | 1.8K | 5% | 1/6W | |
| R516 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R517 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R518 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R519 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R520 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R521 | 1-249-440-11 | CARBON | 82K | 5% | 1/6W | |
| R522 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R523 | 1-247-843-00 | CARBON | 3.3K | 5% | 1/6W | |
| R524 | 1-247-883-00 | CARBON | 150K | 5% | 1/6W | |
| R525 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R526 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R527 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R528 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R529 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R530 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R531 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R532 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R533 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R534 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R535 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R536 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R537 | 1-247-869-00 | CARBON | 39K | 5% | 1/6W | |
| R539 | 1-247-895-00 | CARBON | 470K | 5% | 1/6W | |
| R540 | 1-247-895-00 | CARBON | 470K | 5% | 1/6W | |
| R541 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R542 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R543 | 1-247-827-00 | CARBON | 680 | 5% | 1/6W | |
| R544 | 1-247-895-00 | CARBON | 470K | 5% | 1/6W | |
| R545 | 1-247-895-00 | CARBON | 470K | 5% | 1/6W | |
| R546 | 1-247-895-00 | CARBON | 470K | 5% | 1/6W | |
| R547 | 1-247-895-00 | CARBON | 470K | 5% | 1/6W | |
| R548 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R549 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R551 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R552 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R553 | 1-249-440-11 | CARBON | 82K | 5% | 1/6W | |
| R554 | 1-249-440-11 | CARBON | 82K | 5% | 1/6W | |
| R556 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R557 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R558 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R559 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R560 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W | |
| R561 | 1-247-807-00 | CARBON | 100 | 5% | 1/6W | |
| R562 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R563 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R564 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R565 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R566 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R567 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W | |
| R568 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W | |
| R569 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R570 | 1-247-895-00 | CARBON | 470K | 5% | 1/6W | |
| R571 | 1-247-895-00 | CARBON | 470K | 5% | 1/6W | |
| | | TRANSFORMER | | | | |
| T151 | 1-404-495-00 | COIL | | | | |
| T501 | 1-404-557-11 | COIL | | | | |
| T502 | 1-404-557-11 | COIL | | | | |
| T503 | 1-404-557-11 | COIL | | | | |
| T504 | 1-404-557-11 | COIL | | | | |
| T505 | 1-404-477-00 | COIL, IF | | | | |
| | | CRYSTAL | | | | |
| X001 | 1-527-790-00 | OSCILLATOR, CERAMIC | | | | |
| ********** | | | | | | |
| | *1-617-679-11 | H1 BOARD<br>******** | | | | |
| | | CAPACITOR | | | | |
| C451 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V | |
| C452 | 1-102-973-00 | CERAMIC | 100PF | 10% | 50V | |
| C453 | 1-123-318-00 | ELECT | 33MF | 20% | 16V | |
| C454 | 1-123-333-00 | ELECT | 100MF | 20% | 16V | |
| C455 | 1-123-356-00 | ELECT | 10MF | 20% | 16V | |
| C456 | 1-161-055-00 | CERAMIC | 0.022MF | 10% | 25V | |
| C457 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V | |
| C458 | 1-123-321-00 | ELECT | 220MF | 20% | 16V | |
| C459 | 1-102-973-00 | CERAMIC | 100PF | 10% | 50V | |
| C460 | 1-123-333-00 | ELECT | 100MF | 20% | 16V | |
| C461 | 1-123-356-00 | ELECT | 10MF | 20% | 16V | |
| C462 | 1-161-055-00 | CERAMIC | 0.022MF | 10% | 25V | |
| | | IC | | | | |
| IC451 | 8-759-841-75 | IC LA4175 | | | | |
| | | COIL | | | | |
| L451 | 1-408-163-00 | MICRO INDUCTOR 5.6MMH | | | | |
| | | RESISTOR | | | | |
| R451 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R452 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R453 | 1-247-797-00 | CARBON | 39 | 5% | 1/6W | |
| R454 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R455 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R456 | 1-247-829-00 | CARBON | 820 | 5% | 1/6W | |
| R457 | 1-247-797-00 | CARBON | 39 | 5% | 1/6W | |
| R458 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R459 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R460 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | VARIABLE RESISTOR | |
| RV451 | 1-228-366-21 | RES, VAR, CARBON 20K/20K | |
| | | SWITCH | |
| S451 | 1-553-329-00 | SWITCH, PUSH (MONO KEY) | |
| S452 | 1-553-329-00 | SWITCH, PUSH (MONO KEY) | |
| S453 | 1-553-329-00 | SWITCH, PUSH (MONO KEY) | |
| S454 | 1-553-766-00 | SWITCH, KEY BOARD | |
| S455 | 1-553-766-00 | SWITCH, KEY BOARD | |
| S456 | 1-553-766-00 | SWITCH, KEY BOARD | |
| S457 | 1-553-766-00 | SWITCH, KEY BOARD | |
| S458 | 1-553-766-00 | SWITCH, KEY BOARD | |
| S459 | 1-553-766-00 | SWITCH, KEY BOARD | |
| S460 | 1-553-766-00 | SWITCH, KEY BOARD | |
| S463 | 1-553-206-00 | SWITCH, SLIDE | |
| ********** | | | |
| | *1-617-680-11 | H2 BOARD<br>******** | |
| | | SWITCH | |
| S461 | 1-553-766-00 | SWITCH, KEY BOARD | |
| S462 | 1-553-766-00 | SWITCH, KEY BOARD | |
| ********** | | | |
| | *1-617-681-11 | HL BOARD<br>******** | |
| | | DIODE | |
| D401 | 8-719-311-23 | DIODE SEL112NP-N | |
| | *4-345-836-00 | HOLDER (S-2), LED; D401 | |
| D402 | 8-719-311-23 | DIODE SEL112NP-N | |
| | *4-345-836-00 | HOLDER (S-2), LED; D402 | |
| D403 | 8-719-311-23 | DIODE SEL112NP-N | |
| | *4-345-836-00 | HOLDER (S-2), LED; D403 | |
| D404 | 8-719-311-23 | DIODE SEL112NP-N | |
| | *4-345-836-00 | HOLDER (S-2), LED; D404 | |
| D405 | 8-719-311-23 | DIODE SEL112NP-N | |
| | *4-345-836-00 | HOLDER (S-2), LED; D405 | |
| D406 | 8-719-102-34 | DIODE SG232D | |
| | *4-345-836-00 | HOLDER (S-2), LED; D406 | |
| D407 | 8-719-114-34 | DIODE SY432D | |
| | *4-345-836-00 | HOLDER (S-2), LED; D407 | |
| D408 | 8-719-311-23 | DIODE SEL112NP-N | |
| | *4-345-836-00 | HOLDER (S-2), LED; D408 | |
| D409 | 8-719-311-23 | DIODE SEL112NP-N | |
| | *4-345-836-00 | HOLDER (S-2), LED; D409 | |
| D410 | 8-719-908-08 | DIODE SL-1274 | |
| | *1-526-638-00 | SOCKET, IC (9P); D410 | |
| D411 | 8-719-102-34 | DIODE SG232D | |
| | *4-345-836-00 | HOLDER (S-2), LED; D411 | |

# HL K Z

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| | | RESISTOR | | | | |
| R401 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R402 | 1-247-813-00 | CARBON | 180 | 5% | 1/6W | |
| ********** | | | | | | |
| | *1-607-156-00 | K BOARD<br>******* | | | | |
| | | CONNECTOR | | | | |
| KP701 | 1-536-713-00 | TERMINAL BOARD, CONNECTOR | | | | |
| KP702 | 1-536-713-00 | TERMINAL BOARD, CONNECTOR | | | | |
| | | RESISTOR | | | | |
| R701 | 1-247-804-00 | CARBON | 75 | 5% | 1/6W | |
| R702 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R703 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R704 | 1-247-899-00 | CARBON | 680K | 5% | 1/6W | |
| R705 | 1-247-899-00 | CARBON | 680K | 5% | 1/6W | |
| R706 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R707 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R708 | 1-247-804-00 | CARBON | 75 | 5% | 1/6W | |
| R709 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R710 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R711 | 1-247-899-00 | CARBON | 680K | 5% | 1/6W | |
| R712 | 1-247-899-00 | CARBON | 680K | 5% | 1/6W | |
| R713 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R714 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R715 | 1-247-803-00 | CARBON | 68 | 5% | 1/6W | |
| R716 | 1-247-803-00 | CARBON | 68 | 5% | 1/6W | |
| R717 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R718 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R719 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R720 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W | |
| R721 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W | |
| R722 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R723 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R724 | 1-247-803-00 | CARBON | 68 | 5% | 1/6W | |
| R725 | 1-247-803-00 | CARBON | 68 | 5% | 1/6W | |
| R726 | 1-247-831-00 | CARBON | 1K | 5% | 1/6W | |
| R727 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R728 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R729 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W | |
| R730 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W | |
| R731 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |
| R732 | 1-247-823-00 | CARBON | 470 | 5% | 1/6W | |

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | *1-617-682-11 | Z BOARD<br>******* | | | |
| | | CAPACITOR | | | |
| C481 | 1-161-013-00 | CERAMIC | 0.01MF | 10% | 25V |
| C482 | 1-161-013-00 | CERAMIC | 0.01MF | 10% | 25V |
| | | JACK | | | |
| J501 | 1-507-657-00 | JACK (LARGE TYPE) | | | |
| | | CONNECTOR | | | |
| Z1 | *1-560-278-00 | PLUG, CONNECTOR 3P | | | |
| ********** | | | | | |
| | | MISCELLANEOUS<br>********** | | | |
| | ⚠1-526-854-11 | SOCKET, ANTENNA (WITH PLUG) | | | |
| | ⚠1-551-270-31 | CORD, POWER | | | |
| | *1-555-110-00 | CABLE, PIN | | | |
| S901 | ⚠1-570-052-12 | SWITCH, PUSH (AC POWER)(1 KEY) | | | |

**********

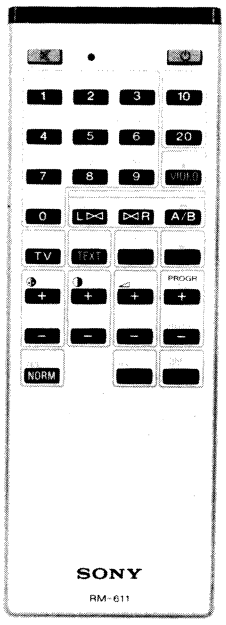
ACCESSORIES AND PACKING MATERIALS
**********

| Part No. | Description | Remark |
|---|---|---|
| A-1009-093-A | COMMANDER ASSY (RM-611) | |
| 1-555-259-31 | CABLE, VIDEO (VK-2D) | |
| *3-703-669-03 | CARD, CAUTION, FTZ | |
| 4-309-407-00 | BAG, POLYETHYLENE | |
| 4-357-830-00 | CUSHION (SIDE) | |
| 4-357-831-00 | CUSHION (UPPER) | |
| *4-361-195-01 | INDIVIDUAL CARTON | |
| 4-482-202-41 | MANUAL, INSTRUCTION | |

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

# RM-611

# SERVICE MANUAL



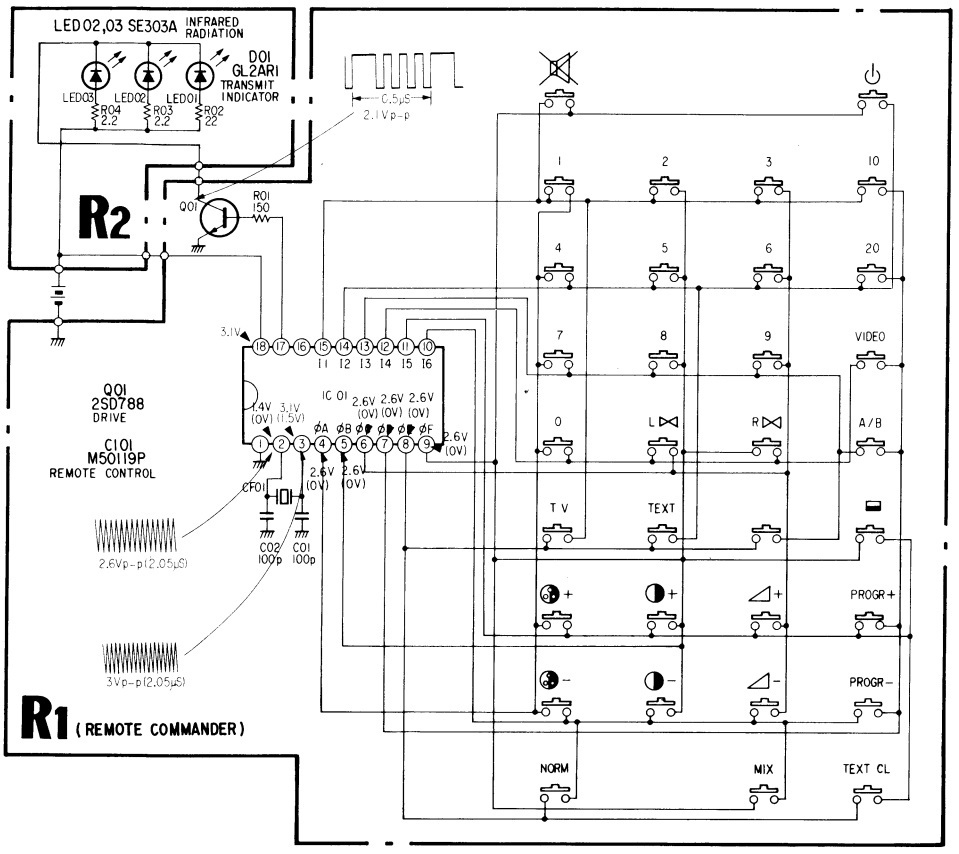

## SPECIFICATIONS

| | |
|---|---|
| **Remote Control System:** | Infrared control |
| **Power Requirements:** | 3 V dc<br>2 batteries IEC designation R6 (size AA) |
| **Dimensions:** | Approx. 65 x 185 x 18 mm (w/h/d) |
| **Weight:** | Approx. 170 g<br>incl. batteries |
| **Accessory supplied:** | Battery IEC designation R6 (2 pcs.) |

REMOTE COMMANDER

SONY

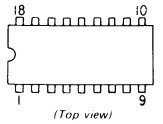
## SCHEMATIC DIAGRAM



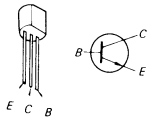

| MODE \ IC PIN | 10 | 11 | 12 | 13 | 14 | 15 | 17 | Q01 B | Q01 C |
|---|---|---|---|---|---|---|---|---|---|
| ⏻ | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 0 | 0 | 2.4 |
| | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 0 | 0 | 2.4 |
| 1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 0 | 0 | 2.4 |
| 2 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 0 | 0 | 2.4 |
| 3 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 0 | 0 | 2.4 |
| 4 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 0 | 0 | 2.4 |
| 5 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 0 | 0 | 2.4 |
| 6 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 0 | 0 | 2.4 |
| 7 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 0 | 0 | 2.4 |
| 8 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 0 | 0 | 2.4 |
| 9 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 0 | 0 | 2.4 |
| 0 | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 0 | 0 | 2.4 |
| 10 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 0 | 0 | 2.4 |
| 20 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 0 | 0 | 2.4 |
| VIDEO | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 0 | 0 | 2.4 |
| L | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| R | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| A/B | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| TV | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 0 | 0 | 2.4 |
| TEXT | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 0 | 0 | 2.4 |
| | 3.1 | 3.1 | 3.1 | 2.6 | 3.1 | 3.1 | 0 | 0 | 2.4 |
| | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| + | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| − | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| + | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| − | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| + | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| − | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| PROGR + | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| PROGR − | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |
| NORM | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 0 | 0 | 2.4 |
| MIX | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 0 | 0 | 2.4 |
| TEXT CL | 3.1 | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 0.2 | 0.1 | 2.2 |

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼ W unless otherwise noted. k: 1000 Ω, M: 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages and waveform are for when A/B button is pressed.
- Voltages in ( ) are taken with button not pressed.

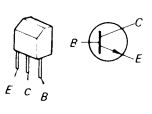
**M50119P**



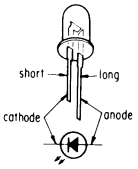

**2SC1475**
**2SD789**



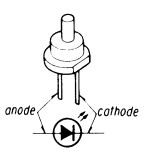

**2SD774**




**SE303A**
**SE303AX**



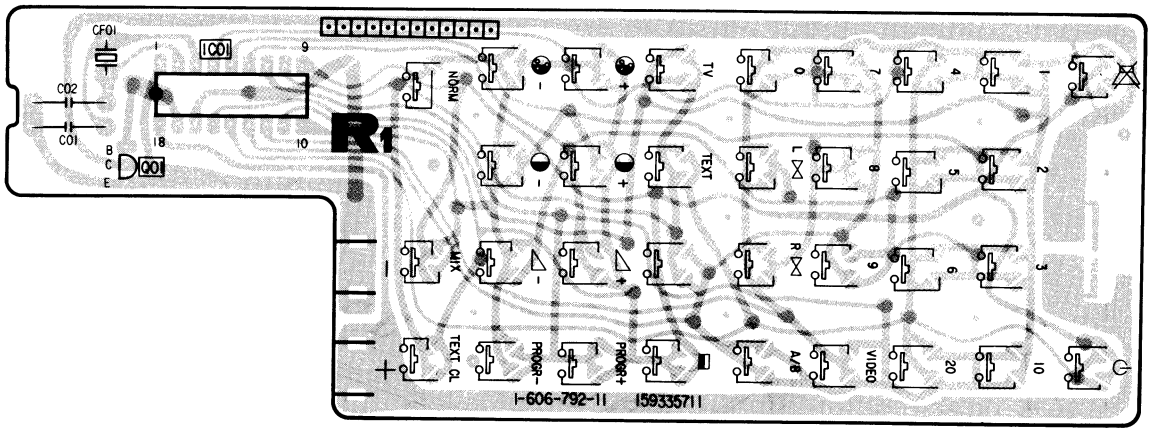

**GL2ARI**



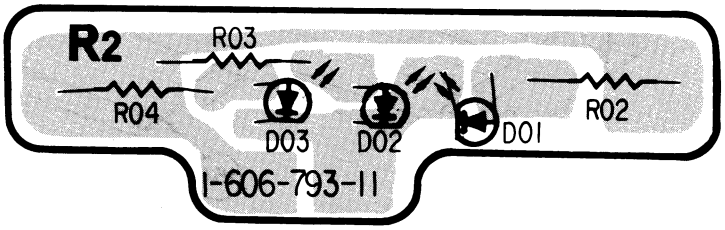
## MOUNTING DIAGRAM

*– Conductor Side –*

– R1 Board –

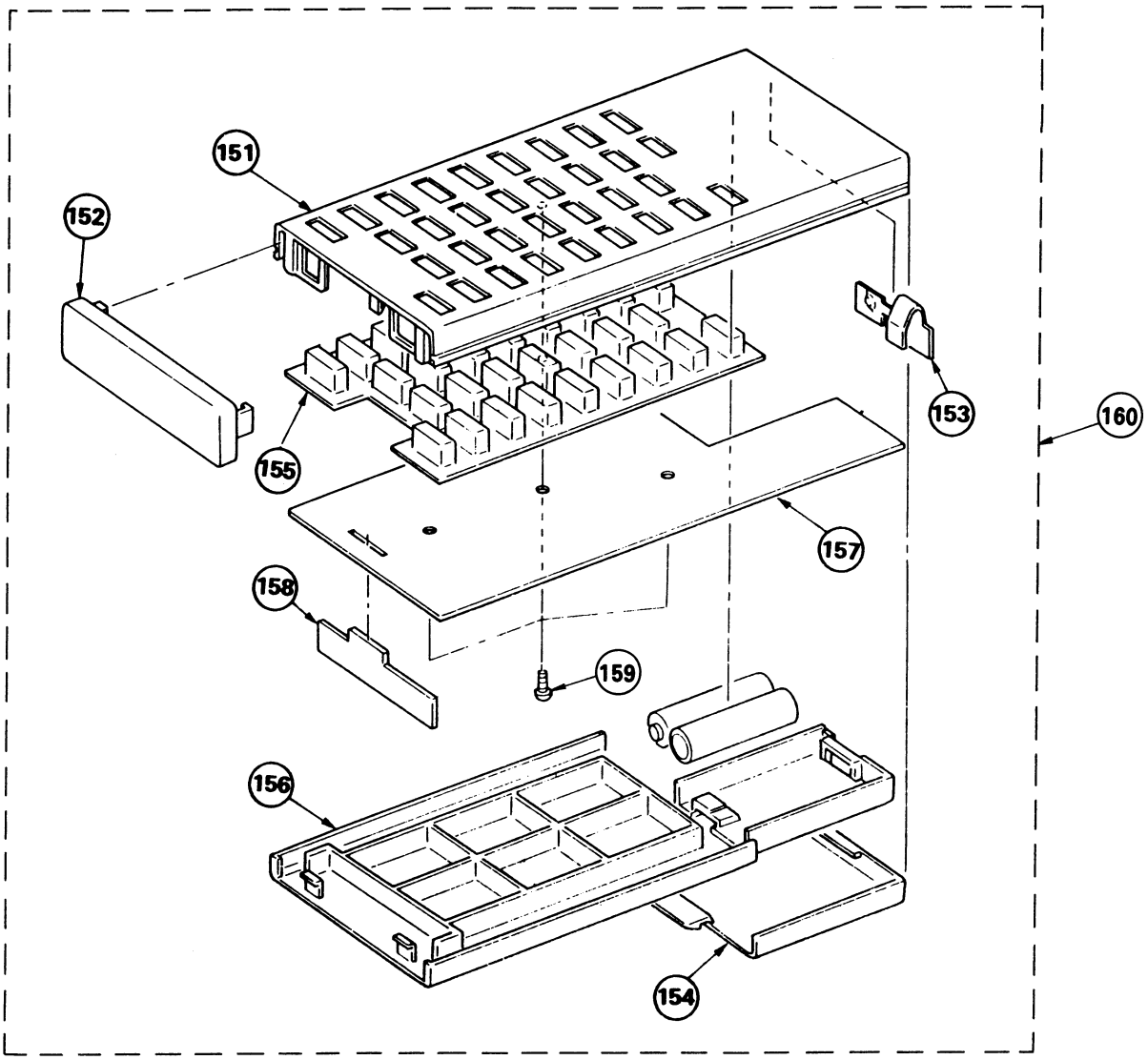



– R2 Board –



## EXPLODED VIEW

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.




| No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | X-4356-912-0 | CASE (UPPER) ASSY, COMMANDER | |
| 152 | 4-356-343-00 | PANEL, COMMANDER (FRONT) | |
| 153 | 4-356-344-00 | TERMINAL (A), BATTERY | |
| 154 | 4-356-347-00 | LID, BATTERY CASE, COMMANDER | |
| 155 | 4-356-348-31 | KEY TOP, 34 | |
| 156 | 4-356-350-00 | CASE (LOWER), COMMANDER | |
| 157 | *:1-606-792-00 | R1 BOARD | |
| 158 | *:1-606-793-00 | R2 BOARD | |
| 159 | 4-356-741-00 | SCREW, TAPPING (BIND 2×5) | |
| 160 | A-1009-093-A | COMMANDER ASSY (RM-611) | 151-159 |

## ELECTRICAL PARTS LIST

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

| Ref.No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| | *1-606-792-00 | R1 BOARD ******** | | | | |
| | 4-356-345-00 | TERMINAL (B), BATTERY | | | | |
| | 4-356-346-00 | TERMINAL (C), BATTERY | | | | |
| | | CAPACITOR | | | | |
| C01 | 1-161-271-00 | CERAMIC | 100PF | 5% | 50V | |
| C02 | 1-161-271-00 | CERAMIC | 100PF | 5% | 50V | |
| | | FILTER | | | | |
| CF01 | 1-527-476-00 | OSCILLATOR, CERAMIC | | | | |
| | | IC | | | | |
| IC01 | 8-759-600-07 | IC M50119P | | | | |
| | | TRANSISTOR | | | | |
| Q01 | 8-729-177-43 | TRANSISTOR 2SD774 | | | | |
| ********** | | | | | | |
| | *1-606-793-00 | R2 BOARD ******** | | | | |
| | | DIODE | | | | |
| D01 | 8-719-900-23 | DIODE GL-2AR1 | | | | |
| LED02 | 8-719-107-82 | DIODE SE303AY | | | | |
| LED03 | 8-719-107-82 | DIODE SE303AY | | | | |
| | | RESISTOR | | | | |
| R02 | 1-247-692-11 | CARBON | 22 | 5% | 1/4W | |
| R03 | 1-249-451-11 | CARBON | 2.2 | 5% | 1/4W | |
| R04 | 1-249-451-11 | CARBON | 2.2 | 5% | 1/4W | |